AN ECONOMIC ANALYSIS OF ENERGY USE AND AGRICULTURAL OUTPUT FOR REPRESENTATIVE FARMS IN THE OKLAHOMA PANHANDLE

By

HAROLD JOE SCHWARTZ

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Texas Tech University

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Thesis Approved:

Varnon R. Edman
Thesis Adviser
All J. Malh
Dean of the Graduate College

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CHAPTER I

PROBLEM DEFINITION

Introduction

The increased demand for agricultural products in both domestic and foreign markets has led to very favorable prices during 1973 and 1974. These high prices encourage farmers to expand their output. However, the price of many inputs has increased greatly during the same period, resulting in increasing farm expenses and great fluctuations in the net returns farmers receive.

One of the most important factors increasing farm expenses during this period is the change in the price of fossil fuels such as diesel, gas, liquified petroleum (LP), and general petroleum products. The increase in petroleum prices also increases the cost of other inputs that use petroleum in the production, processing and transportation phases of getting the input to the farmers. Thus it affects the cost of almost every input the farmer uses. These price increases in fossil fuels and related inputs indicate that some shifts in output or production adjustments are needed. These shifts are necessary for producers to maximize returns to their fixed resources. Because farmers operate in a market that approximates pure competition, such shifts also result in lower consumer food cost.

Although farmers are expected to use an increasing amount of petroleum products the proportion of the nation's requirements is projected to remain approximately the same. Approximately 2.6 million U. S. farmers spent about \$1.9 million for 6.5 billion gallons of petroleum fuel in 1969. This accounted for three percent of all petroleum fuel used. Economic projections indicate that petroleum needs for agriculture will increase to about nine billion gallons by 1980. This is slightly less than three percent of the projected total petroleum use because of the increase in non-farm activities (9).

A recent publication of the Bureau for Business and Economic Research ranked Oklahoma energy users by amounts of energy used in 1973. Agriculture ranked fifth out of seven reported users, followed only by all others and Government. The Bureau projected the amount of energy used by each category in 1990 and found agriculture had dropped to sixth followed only by Government. Table I shows the ranking of energy users by amounts of energy used in 1973 and projected use for 1990.

TABLE I

RANKING OF USERS BY AMOUNTS OF ENERGY USED
IN OKLAHOMA IN 1973 AND 1990

User	1973 Rank	1990 Rank
Industrial	1	1
Transportation	2	2
Residential	3	3
Commercial	4	4
Agriculture	5	6
All other uses	6	5
Government	7	7

Oklahoma Energy Advisory Council, Oklahoma's Energy Needs For The Future, An Interim Report, Bureau of Business and Economic Research, University of Oklahoma (October, 1973).

The amount of energy (excluding electricity) used by the agricultural sector of Oklahoma's economy declined slightly between 1965 and 1972, but is projected to increase thereafter. In 1965, agriculture required about five percent of the energy used in the state, but by 1973, this proportion was expected to decline to slightly more than three percent. The upturn in total use projected to begin in 1973, will cause successive increase through 1990, but the total energy requirement by the agricultural sector will represent about two percent of Oklahoma's total energy requirement for 1990 (12).

A British Thermal Unit (BTU) is a measure of heat energy given off by a substance. It is a standard measure for fuels such as gas, diesel and LP. It was reported that agriculture required 29,539 billion BTU's of fuel energy which is made up of gas, diesel and LP. The number of BTU's increased steadily to 29,947 billion in 1973, while projected BTU's for the Oklahoma Agricultural sector for 1990 is approximately 41,759 billion (12).

TABLE II
BTU'S PER GALLON OF FOSSIL FUEL

Fuel	Gallon	BTU's
LPG	1	91,500
Gasoline	1	119,000
Diesel	1	138,000

Another farm input, fertilizer, is very much affected by the present energy situation. Total fertilizer tonage has increased constantly over the past few years due to the increased acreage fertilized and higher application rates per acre. The major types of energy required for fertilizer production are electricity and natural gas. With the increased fertilizer tonage demanded there is also an increase in BTU's of electricity and natural gas required for production of fertilizers. Table III shows the electricity, natural gas and total BTU's required to produce the fertilizer output for 1965 and 1973 as well as the output projected for 1990 (12).

TABLE III

BTU REQUIREMENTS OF NATURAL GAS AND ELECTRICITY FOR FERTILIZER PRODUCTION, 1965, 1973 and 1990 (Billions of BTU's)

Year	Electricity ^A /	Natural Gas ^B /	Total	Ton Produced ^C /
1965	132	1,499	1,631	489,853
1973 1990	209 823	1,990 4,045	2,199 4,868	770,030 1,582,100

 $[\]frac{\text{A}}{3}$,413 BTU equals 1 KWH.

 $[\]frac{B}{1,000}$ BTU equals 1 cubic foot of natural gas.

Oklahoma State Department of Agriculture, <u>Tonnage Distribution of Fertilizer in Oklahoma Counties</u>, Oklahoma City, Oklahoma (1965, 1973).

The agricultural sector does use a higher proportion of the total U. S. LP gas production than of other petroleum fuels. In 1972, the U. S. farmers purchased 2.7 billion gallons of LP gas products, about 18 percent of total U. S. usage. Of the total 1.45 billion gallons were used to heat farm homes. Only 1.26 billion gallons, about 8 percent of the U. S. consumption, were used for farm production. Of the LP gas production used in farm production, 54 percent was used in motors while 46 percent was used for non-motor purposes such as crop drying, livestock and poultry brooders.

Another farm energy source is electricity which in 1972 made up about 2.7 percent of the 40 billion KWH of the total U. S. electricity usage. The percent of the total electricity consumption that is used on farms has actually declined from 4.6 percent in 1950 to 2.7 percent in 1972 (12).

Irrigated agriculture requires a large input of fossil fuel energy per acre of land farmed. A major reason for the increased energy required per acre is the fuel (primarily natural gas, electricity, LP, and diesel) required to pump the irrigation water. In Oklahoma the number of irrigation wells has increased from 4,102 in 1965 to 5,927 in 1973, while the irrigated acreage increased from 418,373 acres to 758,036 acres in 1973. With this rate of increase it is increasingly important to improve the efficiency of energy used in the agricultural sector. The number of LP powered irrigation pumps has declined from 2,144 in 1965 to 1,454 in 1973 while the number of natural gas systems increased from 751 to 2,813, and the number of diesel systems increased from 259 to 416 (17). The number of pumping systems using electricity for fuel also declined from 1,503 in 1969 to 1,249 in 1971. However, in

considering the present energy situation in 1973 and 1974, a major percentage of the new wells being developed is using electricity as the power source, due to the availability of electricity compared to natural gas. Although large quantities of fuel are required to pump irrigation water, the efficiency varies by type of fuel, with diesel being the most efficient. A typical well in the Oklahoma Panhandle uses about 6.7 gallons of LP to pump one acre-inch of water while it takes about 604 cubic feet of natural gas to pump the same acre-inch of water. Therefore, if twelve inches are applied per acre, this amounts to 80.4 gallons of LP per acre. If the same twelve inches were put on per acre using natural gas, it would require 7,249 cubic feet. In contrast, because a gallon of diesel fuel contains more energy than a gallon of LP, irrigating with twelve inches of water using diesel would require only about fifty gallons of diesel (9).

Applying 36 acre inches requires 240 gallons of LP fuel, while the same 36 acre inches requires 150 gallons of diesel fuel. These figures show the varying amounts of fuel needed to pump the same amount of irrigation water (9).

The trend for several years has been to larger tractor and equipment and to increased use of diesel powered tractors. In 1972, the average new U. S. tractor produced 80 horsepower, with over 30 percent of all sales at 100 horsepower or greater. The number of diesel powered tractors has increased from 18 percent in 1964 to 39 percent in 1972. As in the irrigation engines, the diesel tractor engine is a much more efficient user of its fuel. It is estimated that the work done by a diesel tractor requires 1.0 gallon of fuel while the same work done by a gasoline tractor would require 1.34 gallons of fuel and a LP tractor would require 1.64 gallons of fuel (9).

The Problem

Agriculture uses a relatively small amount of the total U. S. fossil fuel energy. However, as energy supplies become more limiting and prices increase, producers must adjust the use of each input. Some adjustments such as the increased number of diesel tractors purchased from 1964 to 1972, have already taken place. A wide range of additional adjustment to increased energy prices can be expected.

There are many ways by which valuable energy can be saved, such as: (1) matching equipment to tractor size, (2) consolidation of as many operations as possible to reduce the number of trips across the field, (3) continue to replace LP and gasoline tractors with more efficient diesel tractors, and (4) substituting lower energy requiring methods of production for current practices. Adopting minimum tillage, which is a combination of several new management strategies, may be one method of reducing energy used in producing agricultural products. Minimum tillage is both challenging and paradoxical. It requires top agricultural chemists, top agricultural machinery designers, and above all progressive farm managers. The farm manager must utilize every dollar of cost and every hour of labor to maximize economic efficiency. The major underlying issue is to reduce energy requirements whereby net returns remain the same or tend to rise above conventional tillage methods. Minimum tillage is made up of two major elements: (1) Use of chemicals to reduce and replace tillage operations and (2) the combination of two or more tillage operations in one trip over a field. This technique can in many cases conserve moisture and carry-over for fertilizers, thereby reducing irrigation and fertilizer requirements in future years.

Frequently, reduced tillage methods involve growing crops in a specific sequence, making multiple cropping and rotation practices common.

The study area selected for this project is the Oklahoma Panhandle made up of Cimarron, Texas and Beaver counties; as shown in Figure 1. This area has large acreages of extensive, low input, low yield dryland crop production. Large acreages have been converted to intensive irrigated production with high yield levels, and high input levels. Thus a wide range of production methods, ranging from extensive dryland production to intensive irrigated production are adapted for use in the area. Reduced tillage is a definite possibility in the Oklahoma Panhandle.

The purpose of this study is to determine the effect of reduced tillage practices on net income of farmers and to determine the most efficient crops and tillage techniques in terms of energy input and output.

The following set of objectives are pursued to determine the effects of alternative tillage methods on net incomes and energy efficiency.

Objectives

- Develop enterprise budgets for reduced tillage methods of producing irrigated crops in the Oklahoma Panhandle
- 2. Estimate the quantities of fossil fuel energy required for conventional and reduced tillage methods, and convert these values to a common basis.
- 3. Determine the profit maximizing ortanization for representative farms in the Oklahoma Panhandle and estimate the amount of fossil fuel

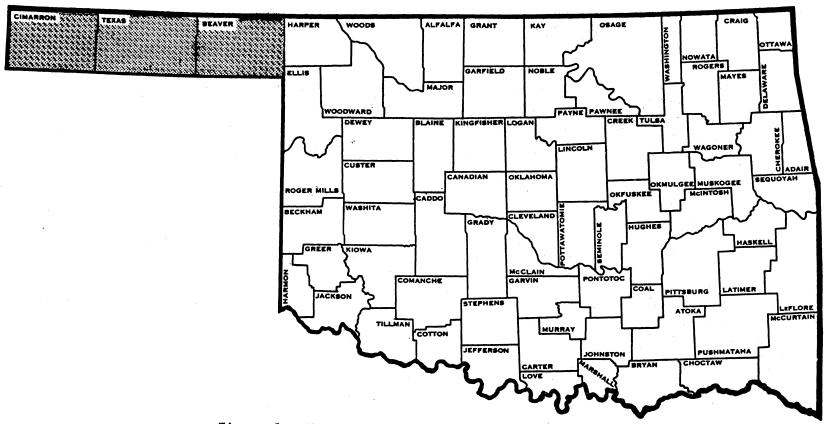


Figure 1. Map of Oklahoma Showing the Area of Study

- energy required by the specified organizations.
- 4. Determine the organization for representative farms in the Oklahoma Panhandle that maximizes net energy output and compare it with the profit maximizing organization.

Thesis Organization

The remainder of this thesis is divided into five chapters.

Chapter II presents the theoretical concepts of marginal analysis compared to linear programming. In addition to the general form of the linear programming model, Chapter III explains the budget construction for the alternative methods of reduced and conventional tillage. In addition, the amount of fossil fuel energy inputs and the amount of energy produced is calculated for each method of production. Chapter IV describes the representative farms and the specific linear programming constraints and activities of the model used. Chapter V explains the optimum organization of the representative farms and compares the solution sets. Chapter VI summarizes the previous four chapters, draws conclusions and discusses the need for further study.

CHAPTER II

CONCEPTUAL DEVELOPMENT

Theory of the Firm

A firm is a technical unit in which commodities are produced. Its entrepreneur (owner and/or manager) decides what to produce, how much to produce and the types and amount of inputs to use. Then he gains the profits or bears the loss which results from his decisions. An entrepreneur transforms inputs into outputs, subject to the technical rules specified by his production function. The difference between his revenue from the sale of outputs and the cost of inputs is his profits, if positive, or his loss, if negative (8). The flow chart in Figure 2 provides a convenient graphical device for depicting the decision process of the firm (11).

Economic Tools of Analysis

The development of the electronic computer has led to the development and use of a number of important, yet conceptually different, analytical approaches to the economic theory of the firm. Two of these tools of analysis, marginal analysis and linear programming, are of interest in this study.

Since most of the differences underlying the assumptions of marginal analysis and linear programming models of the firm stem from differences in their assumptions regarding the production function, it

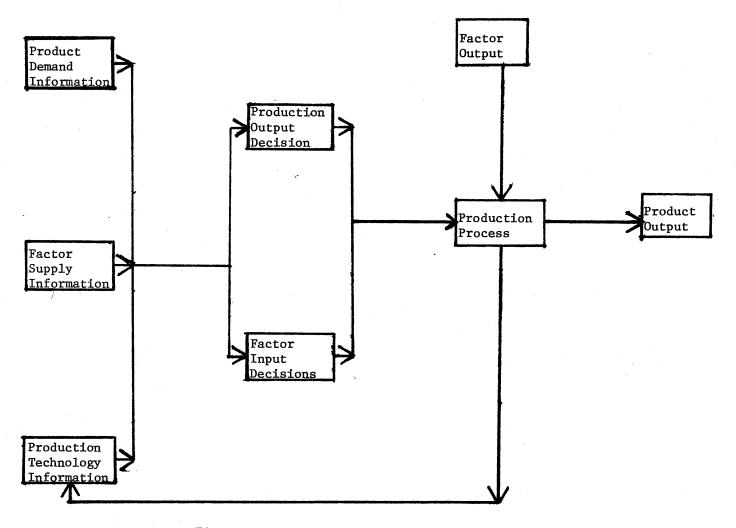


Figure 2. The Decision Process of a Firm

is appropriate to include a digression on "the production function." The use of the production function as a schedule of technological possibilities has provided economists with an extensive amount of information concerning the behavior of profit-maximizing firms. Under the assumptions of conventional marginal analysis, the firm's production function is said to be a function of the quantities of fixed and variable factors which are used in the firm's production process. For any given factor quantities, the dependent variable represented by the function is usually defined as the maximum quantity of the particular product that can be produced in a given state of technology, from the specified factor quantities. In the case of the multi-product, multi-factor firm, all products and factors are considered to be independent variables of the production functions. The dependent variable is then defined as the maximum quantity of output attainable from the specified input quantities. In a summation statement, the production function represents the results of the solution of an entire set of technical suboptimization problems (10).

Marginal Analysis

Marginal analysis is concerned primarily with the process of making choices between alternative factor-product combinations considering infinitesimal changes in the value of the objective function of the firm resulting from infinitesimal change in factor-product combinations. In order to apply marginal analysis to the economic theory of the firm, it is necessary to reduce the problem of the firm to one of finding the optimal (maximum or minimum) values of some objective function subject to a set of constraints. By comparison with linear programming in which

the objective function and the constraints must both be linear, the objective function of the firm under marginal analysis must be concave and differentiable throughout. The constraints may be either linear or nonlinear so long as they are concave.

The neoclassical model of the multi-product, multi-factor firm developed by J. R. Hicks is fairly typical of a broad classification of models of the firm for which marginal analysis is a suitable tool of analysis. The assumptions of marginal analysis are listed by Naylor (11).

- (1) The firm possesses a production process which is capable of transforming a maximum of m variable factors of production into p products. (There are no limitations on the availability of the factors.)
- (2) The prices of the firm's factors and products are fixed and known (that is, perfect competition is assumed).
- (3) The objective of the firm is to maximize profit subject to the technical constraints imposed by its production function.
- (4) A continuous production function exists (with nonzero first and second order partial derivatives) which relates the set of independent factor variables to the set of independent product variables.
- (5) The exact nature of the firm's production function has been predetermined by a set of technical decisions by the firm's engineers and technicians.
- (6) The firm's production function is characterized by a decreasing marginal rate of technical substitution between any two factors, a decreasing marginal product for all factor-product combinations, and an increasing marginal rate of product transformation between any two products.
- (7) All of the firm's factors and products are perfectly divisible.
- (8) Neither the factor prices, the product prices, nor the parameters which determine the firm's production function will change over the time period which is being considered. (This is a static model.)

(9) Neither the factor prices, the product prices, nor the parameters which determine the production function are permitted to be random variables. (Complete certainty is assumed.)

The assumption of perfect competition in both the product and the factor markets is by no means a necessary assumption for the use of marginal analysis in treating the theory of the firm. In fact, the only restriction imposed on the degree of competition in either the product or the factor markets is that the profit function must be concave. A concave profit function implies that the firm's revenue function is concave and that the firm's cost function behaves in a certain prescribed manner. Assuming perfect competition the firm's revenue function is concave only if increases in output yield diminishing marginal returns. That is, the firm possesses a decreasing marginal revenue function. The firm's marginal costs may either increase or decrease with increasing output.

The solution or optimality conditions for the Hicksian model of the firm may be derived in a straightforward manner. These optimality conditions take the form of the following three economic decision rules:

- The price ratio of any two products must equal the marginal rate of product transformation between the two products.
- (2) The price ratio of any two factors must equal the marginal rate of technical substitution between the two factors.
- (3) The price ratio of any factor product combination must be equal to the marginal product for the particular factor-product combination.

It is easy enough to derive a set of optimal conditions of the type listed for a theoretical model of the firm as Hicks'. However, it would be very difficult if not impossible to estimate an empirical

production function showing the relationships between all products a firm in the study are could produce and the amount and timing of each input, since the study incorporates a combination of eight crops. Furthermore, the data necessary to estimate such a function is not available for the study area. Designing experiments to provide the data would be very expensive and require several years to complete. Even if it were possible to formulate a continuous production function for this study and estimate its parameters, the problem of finding the optimal solution for the model using marginal analysis would be a difficult task. These difficulties can be avoided by using linear programming as the tool of analysis.

Linear Programming

Linear programming is a planning method that is helpful in decisions requiring a choice among a large number of alternatives (2). The method, which grew out of applied mathematics, may be defined as a technique for solving problems involving the maximization of a linear objective function subject to a set of linear constraints imposed on the variables of the objective function. From a mathematical standpoint, linear programming is merely a special case of the calculus of maxima and minima in which both the objective function and the constraints are assumed to be linear. It is constantly being refined so that it can be applied with greater precision to a wider range of problems. Like many innovations, its usefulness would have been limited without a parallel technological development, the electronic computer.

When applied to the economic theory of the firm, the differences between linear programming and marginal analysis are pronounced. To

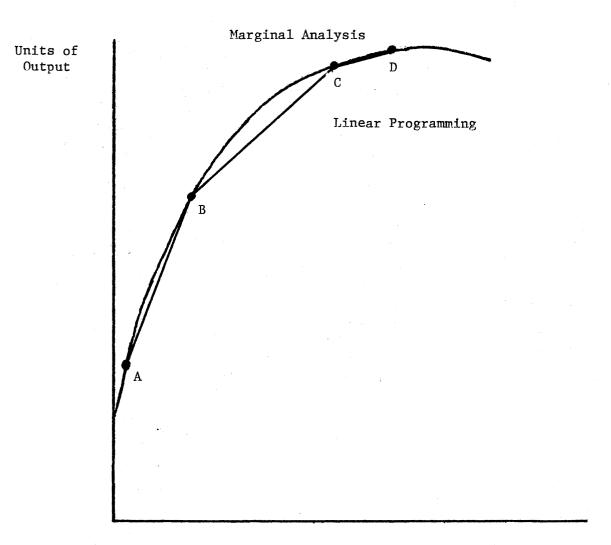
begin with the assumptions which must be made about the firm's production function in formulating a linear programming model are very different from the assumptions underlying the production function in marginal analysis models of the firm. Next, the computational techniques available for obtaining solutions to linear programming problems are much simpler than those of marginal analysis and lastly, the economic interpretation of the optimality conditions of linear programming models of the firm differ considerably from the economic interpretation of the optimality conditions of marginal analysis models.

In order to present a comparison with marginal analysis, the following assumptions formulated for a linear programming model of the firm by Naylor are used. Naylor formulates the model in such a manner as to make it as nearly compatible with the Hicksian model of the multiproduct, multifactor firm as possible. Therefore, the linear programming model of the firm is based on the following set of assumptions given by Naylor (11).

- (1) The firm has p independet processes or activities available, where an activity is defined as a particular way of combining a maximum of m variable factors with a maximum of n fixed factors for production of a unit of output. (A unit of output is analogous to a unit of product.).
- (2) The prices of the firm's variable factors and products are fixed and know (Perfrect Competition).
- (3) The objective of the firm is to maximize profit subject to the constraints imposed by the nature of its activities and the amounts of fixed factors which are available.
- (4) Each activity is characterized by a set of ratios of the quantities of the factors to the levels of each of the outputs. These ratios are constant and independent of the extent to which each activity is used. (Thus homogenity of degree one or constant returns to scale are assumed.)

- (5) The firm is constrained in its selection of activity levels by its fixed endowment of certain resources (fixed factors) required to support the p activities.
- (6) Two or more activities can be used simultaneously, subject to the limitations of the fixed factors available to the firm, and if this is done the quantities of the outputs and inputs are the arithmetic sums of the quantities which would result if the activities are used separately.
- (7) The exact nature of the firm's activities is predetermined by a set of technical decisions by the firm's manager.
- (8) All of the firm's factors and products are perfectly divisible.
- (9) Neither the factor prices, the product prices, nor the coefficients which determine the firm's activities (input-output coefficients) change over the time period which is being considered. (This is a static model.)
- (10) Neither the factor prices, the product prices, nor the coefficients which determine the firm's activities are permitted to be random variables. (Complete certainty is assumed.)

In the comparison of marginal analysis and linear programming, one of the apparent differences is in the production function the firm possess. Figure 3 shows the production function assumed in marginal analysis, concave and differentiable throughout. The production function assumed in linear programming is also shown composed of linear segments making it discontineous. Assume an activity is defined for each of the four points shown in Figure 3, A, B, C, and D and included in the linear programming model. Each activity represents a method of production having its own input-output ratio. Thus the production function is represented by straight line segments because linear programming can use any combination of activities in the solution. A more precise representation of the "true" production function would result by including more activities, thus including more and shorter straight



Energy (Total Input Measured in Kilocalories)

Figure 3. Marginal Analysis and Linear Programming Production Functions

line segments. Assume the variable input is kilocalories of fossil fuel energy. Consider point A as dryland production, and point B as moderate irrigation, while point C is reduced tillage under heavy irrigation. Depending on the input-output price ratio any one of these activities could be optimal.

In contrast with marginal analysis, the number of processes or activities which the firm has at its disposal in the linear programming model is finite. Furthermore, resources are not perfectly adaptable and factor proportions are completely fixed.

Linear programming holds a large advantage over marginal analysis in ease of obtaining a solution. Computer codes capable of solving linear programming problems with in excess of 2000 equations and an almost unlimited number of variables are widely used. This means linear programming is an operational tool of analysis for studies involving a number of equations and variables. There are no computer codes capable of solving the same problem formulated using marginal analysis.

The optimal conditions for the linear programming model are expressed in the following rules:

- The unit price of each activity must be less than or equal to the sum of the imputed cost of the fixed and variable factors used to produce one unit of the activity.
- (2) For each variable factor-activity combination the unit price of the given variable factor must be greater than or equal to the marginal value imputed to the variable factor with regard to the given activity.
- (3) The firm's total profit after paying the cost of its scarce resources (fixed factors) must be equal to zero.
- (4) The total value imputed to the scarce resources available to the firm must be equal to the imputed value of the scarce resources used by the firm in manufacturing operations.

The optimal conditions for the linear programming model does not mention marginal rate of product transformation, marginal rate of substitution, and marginal product, the terms used in the marginal analysis model. This absence stems from the fact that major emphasis is placed on the concept of the activity rather than the particular products (11). These optimality conditions imply the same equilibrium conditions between marginal products, input substitution, product transformation and price ratios as marginal analysis except that inequalities rather than equalities are involved (7).

Components of the Linear Programming Model

The information needed to develop a farm plan by linear programming consist of four major components: activities, production coefficients, product and input prices, and restraints or restrictions. These may also be referred to as building blocks and are used in much the same manner in budgeting except that in linear programming the restraints are more explicit and the input-output data more detailed.

The first major component to be considered, the activities, are very precisely defined. For example, in this study the wheat-fallow-sorghum requiring heavy irrigation is one, while a completely separate activity is defined for wheat-fallow-sorghum with moderate irrigation of sorghum. Other production activities include other reduced tillage cropping schemes, conventional tillage production methods and dryland cropping schemes.

In addition to production activities other activities are included for buying inputs and selling products. For example activities are included in the model for this study for buying diesel, oil, nitrogen

and natural gas, while a selling activity is included for each crop produced such as wheat, soybeans, corn and grazing. A model can contain as many or as few activities as the planner specifies.

The next building block to consider is the production coefficients which are always stated in terms of the amount of input required per unit of the activity. The crop coefficients for programming parallel the resource requirements used in budgeting. An activity unit of crop production is typically defined as one acre. Thus the programming model requires estimates of the output per acre and the amount of water, labor, capital and other resources used to produce that yield.

The accuracy of the solution depends not only on accurate inputoutput data, but also on the input and product prices used. The most
important consideration is that of accurate relative prices. Inaccurate
price predictions may result in a poor estimate of net income for the
farm, but the organization selected would be the most profitable if the
proper relative prices are used. The output prices were adjusted for
the month of sale using seasonal price indicies. The third component,
product and input prices, varies a little from that of predicting prices
for budgets. The input prices are those charged by dealers in the study
area in 1974 as determined by the area extension personnel. The product
prices are based on the government program target prices.

The final element used in programming is the restraint or restriction concept. They are used to include institutional, technical, and operator restraints. They are used to impose limits on available land which is divided into monthly requirements and capital which is also divided into two types for the study. Restrictions are also included to impose institutional restraints and operator preferences.

Procedure for Completing the Objectives

Objective one is satisfied by developing enterprise budgets from the information obtained from the Southwestern Great Plains Research Center for the reduced tillage cropping schemes and by updating budgets for conventional tillage methods that are already available for the area of study. The second objective, that of determining the fossil fuel energy required for the tillage methods, is taken directly from these budgets and converted to kilocalories of fossil fuel energy.

Objective three uses a linear programming model to select the profit maximizing combination of reduced and conventional tillage production methods for each of several representative farms. Fossil fuel requirements are determined in both common units (gallons, pounds, cubic feet) and kilocalories of energy, directly from the optimum organization in each case. The final objective is satisfied using the same linear programming model to select plans for each representative farm that maximize the net kilocalories of output.

CHAPTER III

BUDGET DEVELOPMENT AND ENERGY CALCULATIONS

Enterprise Budgets

This chapter presents the estimated resource requirements, costs, returns and energy estimates per acre of the individual cropping schemes. Reduced and conventional tillage methods are considered. The reduced tillage budgets are based on agronomic data obtained from the Southwestern Great Plains Research Center in Bushland, Texas, while the conventional tillage alternatives are an updating of budget developed through previous research in the study area. All of these budgets present the returns to land, overhead, risk and management on a per acre basis which is used later in the linear programming model for generating optimum whole farm organizations.

The enterprise budgets were developed using a computer program known as the budget generator. The budget generator utilizes data on input requirements, yields and prices, performs the necessary computations, prints the information in a standard format, and stores the budget in a permanent file for future reference and retrieval (19).

Dryland Budgets

The cost and return estimates for dryland crop production are based on input levels and machinery operations specified by the area extension personnel. Research and extension personnel consider the

production methods described to include the minimum practical number of tillage operations. Thus no distinction is made between conventional and reduced tillage for dryland production. The inputs considered are judged to be those used by efficient producers in the area under consideration. The number of crops that can be grown under dryland conditions is limited due to the climatic conditions in the study area. The major dryland crops produced in the area are wheat, grain sorghum and small grain grazing. All three are included in this study. A budget is developed for each of the three crops on both sandy loam and clay loam soils, making a total of six dryland budgets. Detailed budgets can be found in Appendix A.

Irrigated Budgets

Conventional Tillage Budgets. The term conventional tillage is used to refer to a wide range of tillage and machinery techniques. However, it is defined in this study as those operations typically used by the more efficient producers in the Oklahoma Panhandle. The machinery operations and other input levels used were specified by the area extension personnel. The major components that make up the operations are the preparation of the seed bed and the control of weeds that emerge.

Production of the commonly grown crops in the area is considered under irrigation with conventional tillage. Corn grain, wheat, corn silage, grain sorghum, rye graze-out, grazed wheat, sudan for hay and soybeans are considered with alternative irrigation levels and distribution systems. The crops listed are by no means the only suitable ones for the area. However, they represent the most commonly produced crops.

Agricultural experts feel they will also include the major crops produced in the foreseeable future. Detailed budgets may be found in Appendix A.

Reduced Tillage Budgets. The term, minimum tillage may also carry a variety of definitions. "Minimum tillage" as a descriptive term is misleading. It has many different meanings depending on the purpose of the tillage, or the degree to which the tillage operations are performed. A formal definition of minimum tillage might be reducing tillage to only those operations that are timely and essential to produce the crop and avoiding damage to the soil. Compared to conventional tillage of a decade ago, a farmer now using herbicides to reduce the number of cultivations is practicing a form of reduced tillage (13). Thus, some may claim the conventional tillage budgets that incorporate the tillage process specified by the extension personnel already represent some degree of minimum tillage. In this study the term reduced tillage is used to refer to the methods of production requiring somewhat less tillage than the conventional tillage budgets in this study.

Alternative methods of producing irrigated crops and eliminating some tillage operations were identified. They are referred to as: continuous corn, corn silage-rye grazing double crop, two-year wheat rotation, wheat-grain sorghum double crop, three-year rotation of wheat-fallow-sorghum under heavy and moderate irrigation, grazed wheat-sudan for hay double crop and wheat-soybeans double crop. An explanation of each including a discussion of the machinery and irrigation requirements by month is given below to further define the method of production.

The first scheme is a continuous corn reduced tillage operation

under a circular sprinkler distribution system on sandy loam soils. The annual machinery operations include the shredding of stalks in November which eliminates any grazing, but also insures against infestation of corn bore. This is immediately followed by a single discing, which is followed in March by the application of 1.5 pounds of Aatrex herbicide. In April 100 pounds of nitrogen and 50 pounds of phosphate are applied with a dry fertilizer spreader. The crop is planted later that month. The remaining operations are spraying one pint of Parquat per acre in May followed by a side dressing of fifty pounds of nitrogen and a single cultivation in June. Side dressing an additional fifty pounds of nitrogen is the final machinery operation. Table IV shows the machinery requirements and irrigation applications by month.

TABLE IV

MONTHLY MACHINERY AND IRRIGATION REQUIREMENTS FOR CONTINUOUS CORN ON SANDY LOAM UNDER CIRCULAR SPRINKLER USING REDUCED TILLAGE

Machinery								
Requirements	Mar	Apr	May	June	July	Aug	Nov	Total
Stalk Shredder Offset Disk]	1
Sprayer	1						-	1
Dry Fert Spread]						1 .
Cultibedder Plant		1						1
Sprayer			Į.					ļ
Anhydrous Application				Ī	į			2
Row Cultivator				1				_1
ACIN IRRIG WATER		4.0	1	7.2	7.2	5.6		24

 $[\]frac{A}{T}$ Those months not listed contain no tillage or irrigation requirements.

The next cropping scheme begins with corn silage followed by rye grazing, a double cropping technique. Any manager using a double croppign system must consider if enough time is available to harvest one crop and reestablish the second crop. However, with proper management double cropping can in some cases be very beneficial. Both crops are raised under a circular sprinkler system on sandy loam soils. The season begins with the application of 100 pounds and 50 pounds of nitrogen and phosphate, respectively, in May. This is followed by the spraying of Aatrex and then the planting of the corn. The next operation to be performed is the application of insecticide in June and July. One hundred pounds of nitrogen is side dressed along with the second insecticide application. After the silage is harvested in September eighty pounds of nitrogen is applied with a machine known as the cultibedder anhydrous implement. This piece of machiner consists of a disc bedder and a set of anhydrous chisels. Both operations take place at once where the beds are reshaped and anhydrous is applied. The nurse tank is pulled through the field behind the bedder to reduce the number of stops required to refill the smaller rig tank. The ground speed for this operation is somewhat slower than for the disc bedder alone. This difference has been accounted for in the machinery cost computations. The final operation is the drilling of the rye. Grazing occurs from October to May. Table V shows the monthly machinery and irrigation requirements.

The third cropping scheme considered is a two-year wheat rotation. This consists of one year of conventional tillage followed by a year of reduced tillage - and a return the third year to conventional tillage. This budget assumes surface irrigation (furrow irrigation) on a clay

loam soil. The conventional tillage operations are shown in the table but are not discussed since they include the usual machinery requirements. In year two, the reduced tillage year, one disking is completed in June. This is followed by a spraying in July and August of one-half pound of 2,4-D and one-half pound of Paraquat. The final two operations are the application of 100 pounds of nitrogen and the planting of the wheat in September. Monthly details of machinery and irrigation requirements can be found in Table VI.

TABLE V

MONTHLY MACHINERY AND IRRIGATION REQUIREMENTS FOR CORN SILAGE
AND RYE GRAZING DOUBLE CROP ON SANDY LOAM UNDER
CIRCULAR SPRINKLER USING REDUCED TILLAGE

Machinery	Times OverA/									
Requirements	Mar	Apr	May	June	Ju1y	Aug	Sep	Nov	Total	
Dry Fert Spread			1						1	
Cultibedder Plant			1]	
Sprayer			1		9				Ţ	
Anhydrous Application					į		7		1	
Cultibedder Anhydrous Drill							, 1		! 1	
ACIN IRRIG WATER	3.0	3.0	3.0	3.6	7.2	7.2	3.0	4.0	34	

 $[\]frac{A}{T}$ Those months not listed contain no tillage or irrigation requirements.

TABLE VI

MONTHLY MACHINERY AND IRRIGATION REQUIREMENTS FOR A TWO-YEAR WHEAT ROTATION OF CONVENTION TILLAGE YEAR ONE AND REDUCED TILLAGE YEAR TWO ON CLAY LOAM WITH SURFACE IRRIGATION

Machinery	Times Over ^{A/}									
Requirements	Apr	May	Jun	Jul	Aug	Sep	Nov	Total		
Offset Disk Land Plane Cultibedder Anhydrous Cultibedder Tiller Drill Offset Disk Sprayer Cultibedder Anhydrous Drill ACIN IRRIG WATER	4	6	.5	. 5	.5 .25 .5	.5 .5 .5	4	1.5 .25 .5 .5 .5 .5 .5		

Those months not shown contain no tillage or irrigation requirements. Figures are the average per year over the two year rotation.

The next cropping possibility is a wheat-grain sorghum double crop under surface irrigation on a clay loam soil. This double cropping scheme is one of the more demanding for harvesting the wheat and reestablishing the sorghum in the given time period. This scheme begins with the shredding of sorghum stalks in early October, immediately after harvest. The cultibedder anhydrous operation applies 120 pounds of nitrogen and reshapes the furrows. Then the wheat is drilled. The sorghum crop is planted in June immediately after wheat harvest. Then 1.5 pounds of Aatrex and 100 pounds of anhydrous are applied. This method conserves soil moisture from the wheat increasing the sorghum yield approximately 600 pounds per acre (15). Table VII indicates

monthly requirements for both machinery and irrigation.

TABLE VII

MONTHLY MACHINERY AND IRRIGATION REQUIREMENTS FOR WHEAT SORGHUM DOUBLE CROP ON CLAY LOAM UNDER SURFACE IRRIGATION USING REDUCED TILLAGE

Machinery	Times OverA/									
Requirements	Mar	Apr	May	Jun	Jul	Sep	0ct	Nov	Total	
Stalk Shredder Cultibedder Anhydrous Drill Cultibedder Plant Sprayer Anhydrous Application ACIN IRRIG WATER	3.0	3.0	3.0	1 1 1 6.0	5.0	3.0	3.0	3.0	1 1 1 1 1 1 29	

 $[\]frac{A}{I}$ Those months not listed contain no tillage or irrigation requirements.

The next cropping scheme is somewhat unusual in that it involves a three-year rotation. It is labeled wheat-fallow-sorghum under surface irrigation on a clay loam soil. This process begins in year one with wheat production. A rod weeding is completed in June and July, and 120 pounds of nitrogen are applied with a sweep anhydrous rig in August. This machine, like the cultibedder anhydrous rig, is developed specifically for reduced tillage farming. It consists of an ordinary sweep frame and large sweeps with tubular outlets for anhydrous. The nitrogen is applied through the sweeps at a depth of approximately six inches. This serves two purposes, to break up the soil and apply the nitrogen

at a depth to prevent an excessive amount of leaching. Again harvesting the wheat and planting the second crop, sorghum, within a few days is important to achieve the efficiency accounted for in the budgets. The drilling of the wheat takes place in September. The only machinery operation in year two is a single spraying of three pounds of Aatrex in July. Grain sorghum is produced the third year. The first operation is planting the sorghum in June. This is followed by the application of 125 pounds of nitrogen. The only additional tillage is cultivation of the sorghum in August. The three year rotation of wheat-fallow-sorghum can be used with either moderate or heavy irrigation. Only the yield of the sorghum and the amount of irrigation water change. The machinery requirements remain the same. Table VIII shows machinery requirements and irrigation specifications for both wheat-fallow-sorghum situations.

Grazed wheat to sudan for hay double crop is the next budget presented. The analysis assumes surface irrigation is used on a clay loam soil. After grazing of wheat has ceased in May, 100 pounds of dry nitrogen is applied and the sudan is planted in June.

One-half pound of 2,4-D is sprayed to control broadleaf weeds. The preparation to establish the wheat crop begins in September with the reshaping of the beds and application of eighty pounds of nitrogen with the cultibedder anhydrous rig.

The wheat also is drilled in September. The monthly machinery and irrigation requirements are presented in Table IX.

The next cropping scheme uses the same crops as an earlier discussed process, grazed wheat to corn silage double crop. However, this method of production is for surface irrigation on clay loam soil rather than

TABLE VIII

MONTHLY MACHINERY AND IRRIGATION REQUIREMENTS FOR WHEATFALLOW-SORGHUM THREE YEAR ROTATION ON CLAY LOAM UNDER
SURFACE IRRIGATION USING REDUCED TILLAGE

Machinery	Times Over <u>A</u> /										
Requirements	Mar	Apr	May	Jun	Jul	Aug	Sep	0ct	Nov	Total	
Rod Weeder Sweep Anhydrous Drill Sprayer Cultibedder Plant Sweep Anhydrous Cultibedder Tiller ACIN IRRIG WATERB/ ACIN IRRIG WATERC/	1	1	2.7 2.7	.33	.33 .33 2.4 1.3	.33 .17 2.4 1.3	. 33	1.3	1.3	.66 .33 .33 .33 .33 .33 .17 12 8.6	

 $[\]Delta$ /Those months not listed contain no tillage or irrigation requirements. Figures are the average per year over the three year rotation.

TABLE IX

MONTHLY MACHINERY AND IRRIGATION REQUIREMENTS FOR GRAZED WHEAT
TO SUDAN HAY DOUBLE CROP ON CLAY LOAM SOIL WITH SURFACE
IRRIGATION USING REDUCED TILLAGE

Machinery	Times Over <u>A</u> /									
Requirements	Mar	Apr	May	Jun	Ju1	Aug	Sep	0ct	Total	
Dry Fert Spread Cultibedder Plant Sprayer Cultibedder Anhydrous Drill			1	1		Con]		1; 1 1 1	
ACIN IRRIG WATER	4.0	4.0	4.0	4.0	8.0	4.0	4.0	4.0	36	

 $[\]stackrel{\triangle}{-}$ Those months not shown contain no tillage or irrigation requirements.

B/Heavy Irrigation

 $[\]underline{C}$ /Moderate Irrigation

circular sprinkler on sandy loam. The difference in soil and water distribution system requires a completely different set of machinery operations. During September, eighty pounds of nitrogen are applied with the cultibedder anhydrous rig and the rye is drilled. Grazing continues from the time sufficient growth is available in October through April or until all rye foliage is gone. In May the corn is planted and 100 pounds of nitrogen are applied via the sweep anhydrous rig. During June one-fourth pound of Banvel D is sprayed, 100 pounds of nitrogen is side dressed and the corn is cultivated one time. Table X shows detailed machinery and irrigation requirements by months.

TABLE X

MONTHLY MACHINERY AND IRRIGATION REQUIREMENT FOR GRAZED RYE TO CORN SILAGE DOUBLE CROP ON CLAY LOAM UNDER SURFACE IRRIGATION USING REDUCED TILLAGE

Machinery	Times Over <u>A</u> /										
Requirements	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Total		
Cultibedder Anhydrous Drill	·]		1		
Cultibedder Plant Sweep Anhydrous] .]	9			•		i 1		
Sprayer Anhydrous Application Row Cultivator]]] 1		
ACIN IRRIG WATER	4.0	8.0	4.0		8.0	8.0	4.0	4.0	40		

 $[\]frac{A}{T}$ Those months not listed contain no tillage or irrigation requirements.

The eighth and final budget to be evaluated under the reduced tillage heading is a wheat-soybean double crop system under circular sprinkler on sandy loam soil. Again these two combinations require exact timing in harvesting of one crop and reestablishment of the second. The first machinery operation is to apply 120 pounds of nitrogen and 50 pounds of phosphate. Then the land is disc, tilled with a cultibedder and is drilled, all during October. Immediately after the wheat is harvested and the straw removed, soybeans are planted. Weeds are controlled with an aerial application of Lasso and Sencor prior to seedling emergence. Table XI shows machinery and irrigation requirements by month.

TABLE XI

MONTHLY MACHINERY AND IRRIGATION REQUIREMENTS FOR WHEAT AND SOYBEAN DOUBLE CROP ON SANDY LOAM UNDER CIRCULAR SPRINKLER USING REDUCED TILLAGE

Machinery				Times	0ver	<u>A</u> /			
Requirement	Mar	Apr	May	Jul	Aug	0ct	Nov	Dec	Total
Dry Fert Spread			C		/ · C+ · E · · T · · ·]]
Offset Disk Cultibedder Tiller						1			1 1
Drill Cultibedder Plant				1		1			1
ACIN IRRIG WATER	3.0	3.0	6.0	7.0	8.0	3.0	3.0		33

 $[\]frac{A}{T}$ Those months not listed contain no tillage or irrigation requirements.

It is assumed that harvesting of all crops not grazed is done via custom harvesters. All reduced tillage budgets are included in Appendix A in detail which includes a monthly breakdown of the production, inputs, machinery and irrigation requirements for the eight cropping schemes.

Prices

As noted in Chapter II the relative prices are of more concern than absolute prices for farm planning in the study. Government program target prices are used for products. This results in using relatively low prices, but the relationship between products is based on the normal relationship over a long period of time. Those crops which do not have a target price were adjusted to correspond with the target crops. This was done with a ratio multiplier developed for a similar crop over the past five year period. An example is soybeans. The 70-74 average price for grain sorghum was \$3.156, while soybeans were \$4.466, or 1.4 times the grain sorghum price. Applying this ratio to the target sorghum price of \$2.34 gave a soybean price of \$3.28 for the study.

September, 1974 input prices from the study area are assumed. The price of each input and product is listed in Table XII.

Energy Requirements for Alternative

Crops and Method of Production

Table XIII lists the quantities of inputs in their respective units of measurement for the specified crops under conventional, reduced and dryland tillage. All figures are obtained from the budgets discussed earlier and developed specifically for this study. These inputs are

TABLE XII

ASSUMED PRICES PAID AND RECEIVED IN THE MODEL FOR THE DESIGNATED STUDY AREA

Item	Units	Price
Prices Received for Products		
Corn Grain	BU.	1.38
Corn Silage	TON	5.50
Wheat Grain	BU.	2.05
Grain Sorghum	CWT	2.34
Sudan Hay	TON	22.00
Soybeans	BU. A/	3.28
Small Grain Graze Out October to May	AUM A/	10.00
Small Grain Graze Out November to March	AUM	10.00
Grain Sorghum Stubble	AUM	10.00
Prices Paid for Inputs		
Labor	HR.	3.00
Operating Interest	DOL.	.10
Investment Interest	DOL.	.08
Nitrogen		
Anhydrous	LB.	.14
Dry	LB.	.30
Phosphate	LB.	.25
Insecticide	AC.	8.00
Herbicides		0.00
Aatrix	LB.	2.40
Paraquat	Pt.	4.78
2, 4-D	LB.	8.00
Lasso & Sencor	AC.	10.00
Diesel	GALS	.31
011	QTS.	.45
Natural Gas	1000 CUFT.	.55
Plant Seed		
Corn	LB.	.52
Rye	BU.	5.00
Wheat	BU.	5.00
Grain Sorghum	LB.	. 27
Sudan	LB.	.27
Soybean	LB.	.17
Custom Combine Rate	TID •	.1/
Corn Compline Rate		
Cutting and Hauling	BU.	.30
Sorghum	20 •	.30
Cutting	AC.	10.00
Hauling	CWT	.10
Wheat	CMI	.10
Cutting for first 20 Bu.	AC.	7.00
Over 20 Bu.	BU.	.08
Hauling	BU.	.10
Swathing B/	AC.	
		3.16
Baling	Bale	.15
Hauling	Bale	.14

 $[\]underline{A\prime}/\mathrm{AUM}$ - Animal Unit Month, the feed required to feed a 1000 lb. steer for one month.

 $[\]underline{B}/Source$: Ted R. Nelson, Darrell D. Kletke, "Custom Rates for Summer and Fall Jobs," \underline{OSU} Extension Facts, Number 126 (1974).

TABLE XIII

AVERAGE PER ACRE REQUIREMENT FOR SPECIFIED INPUTS TO PRODUCE DESIGNATED CROPS ANNUALLY FOR IRRIGATED AND DRYLAND PRODUCTION

Production Method						INPUTS						
	Nitrogen	Phosphate	Herbicide	Insecticide	Diesel	Equip. Lube	Irr. Fuel	Irr. Lube	Planting Seed 1st Crop	Planting Seed 2nd Crop	Labor ^D /	Machiner
Conventional Tillage	LBS.	LBS.	LBS.	LBS.	GALS .	QTS.	1000 CUFT	QTS.	LBS.	LBS.	HRS.	DOL.
Corn Grain	200	50	2.0	1	9.1	.65	20.325	2.50	20		3.43	23.06
Wheat	100				7.6	.54	10.525	1.74	60		2.67	11.64
Corn Silage	200	50	2.0	. 1	8.9	.63	20,325	2.51	20		3.40	23.03
Sorghum Moderate Irrigation		_	1.5	1	10.2	. 72	6.425	1.06	7		2.88	8.03
Rye Graze Out	- 80	40	0		7.2	.52	15.250	1.88	60		2.59	10.90
Sorghum Heavy Irrigation	150		1.5	1	12.2	.88	14.625	1.65	10		4.03	12.29
Grazed Wheat	80	40			7.2	.52	10.525	1.74	60		2.57	9.74
Sudan Hay	100				5.2	.37	20.325	2.51	10		3.02	15.45
Soybeans	50		1.0		8.2	.58	20.325	2.50	90		3.13	22.77
Reduced Tillage												
Corn Grain	200	50	1.5	1	9.2	.66	20.325	2.50	20	. 60	3.58	22.83
Silage, and Rye Graze Sand	280	50	1.5	1	5.6	.40	28.125	3.50	20	60	3.16	24.17
Wheat ^A	100		1.0		5.4	.38	9.950	1.60	60	0	2.24	8.99
Wheat and Sorghum p/	240		1.5	1	5.0	.43	16.975	2.80	60	7	3.00	14.62
Wheat-Fallow-Sorghum HI_{C}^{D}	81		1	1	2.3	.16	7.167	1.10	20	3.3	1.06	5.29
Wheat-Fallow-Sorghum MI-	. 80		1	1	2.3	.16	5.067	.84	20	2.3	. 89	4.37
Grazed Wheat and Sudan Hay	180		.50		4.2	.31	21.500	3.00	60	10	2.95	14.93
Silage and Rye Graze Clay	280		.25	1	7.7	.55	29.125	3.50	20	60	3.96	44.26
Wheat and Soybeans	120	50	2.5		3.6	. 26	28.050	3.50	60	90	2.55	25.79
Dryland Production												
Wheat Clay Loam	60				1.3	.13			45		.36	1.04
Wheat Sandy Loam	60				1.3	.13			45		. 36	1.04
Sorghum Clay Loam	50			1	5.2	.52			4		1.20	2.07
Sorghum Sandy Loam					5.4	•54			4	*	1.22	2.03
Small Grain Graze Out Clay	30	30			3.9	.39			60		.88	1.53
Small Grain Graze Out Sand	30	30			3.9	.39			60		.88	1.53

A/The two year wheat rotation of conventional tillage in year one and reduced tillage in year two requires a two year planning budget. In order to compare the inputs on an annual basis an average is determined for the scheme.

B/The Wheat-Fallow-Sorghum Heavy Irrigation scheme is a three year rotation. An average for the three year period is used.

 $[\]frac{C'}{The}$ same averaging requirement is needed for the Wheat-Fallow-Sorghum and three year rotation for a moderate irrigation scheme.

 $[\]underline{D}$ /Includes both Machinery and Irrigation Labor.

converted to the amount of fossil fuel energy required to produce, process and transport the input to the farm gate. The amounts of energy for each method of production (enterprise budget) are summed, providing an estimate of the total fossil fuel energy required for the outputs resulting from that method of production. The amount of machinery listed as required per acre to produce the crop, is equal to the dollars of depreciation, repairs and maintenance allocated to one acre of the enterprise.

Conversion Factors

The common denominator used for energy calculations is the kilo-calorie. Each of the inputs is converted from its common unit into its equivalent in kilocalories of energy. The input categories in Table XIV indicate conversion factors that are needed for nitrogen, phosphate, herbicides, insecticides, diesel, equipment lube, irrigation fuel (natural gas), irrigation lube, labor, machinery, and planting seed. All conversion factors except diesel, lube, natural gas, machinery and planting seed were taken from a study conducted by David Pimentel (14).

There are several ways to estimate the machinery energy which includes tractors, farm equipment and irrigation equipment. One means in which the kilocalorie energy can be estimated was presented by Pimentel in his article (14). In his presentation he estimated that roughly 420,000 kcal of machinery input were needed to produce an acre of corn. This was obtained from a study done by Berry and Fels who calculated that about 31,968,000 kilocalories of energy was necessary to construct an average automobile weighing 3,400 pounds. Pimentel assumed 244,555,000 kilocalories (an equivalent of 13 tons of machinery)

TABLE XIV

KILOCALORIES OF ENERGY PER UNIT OF INPUT AND OUTPUT

Identification	Unit	Kilocalories of Energy <u>A</u> /
Nitrogen	LB.	8,400
Phosphate	LB.	1,520
Insecticide	LB.	11,000
Herbicide	LB.	11,000
Diesel	GAL.	46,710 <u>B</u> /
011	QT.	11,678 <u>B/</u>
Natural Gas	1000 CUFT.	264,600 <u>B</u> /
Labor	HR.	544
Machinery	DOL.	17,523
Wheat Seed	LB.	1,522
Grain Sorghum Seed	LB.	1,423
Rye Seed	LB.	1,513
Soybean Seed	LB.	1,692
Sudan Seed	LB.	1,296
Corn Seed	LB.	1,574
Rye Pasture	AUM	793,456 ^{<u>C</u>/}
Wheat Pasture	AUM	793,465 <u>C</u> /
Grain Sorghum Stubble	AUM	735,233 <u>C</u> /
Sudan Hay	LB.	1,049
Corn Silage	LB.	338

A/Source: David Pimentel, "Food Production and the Energy Crisis,"
Science, Vol. 182 (November 2, 1973) p. 445. Except those in footnote B and C.

B/Source: Allen J. Johnson, <u>Fuels and Combustion Handbook</u>, p. 365, 1st edition McGraw-Hill Book Company, New York, 1951.

 $^{^{\}c C/}$ The amount of energy in wheat, rye and sorghum stubble pasture assumes 645 pounds of oven dry forage (or 750 pounds with 14% moisture) is required per AUM. The 645 pounds are multiplied by 1230.1632 kilocalories per pound for wheat and rye and 1139.8968 for sorghum stubble to obtain the kilocalories of energy per AUM.

were used for the production of all machinery (tractors, trucks, miscellaneous) to farm 62 acres of corn. This machinery was assumed to function about 10 years. Repairs were assumed to be six percent of the total machinery production or about 15,000,000 kilocalories. Hence, a conservative estimate for the production and repair of farm machinery per corn acre per year was 420,000 kcal.

In this study a somewhat more concrete method for calculating machinery energy is used. This method more accurately estimates the relative machinery energy requirements for each production method considered in this study. The method used is based on the dollar value of the machinery "used up" as measured by dollars of depreciation and repairs. The coefficients to convert the dollars per acre into kilocalories per acre is based on a study prepared by W. S. Reardon (16). However, one problem is that the most recent data available to estimate the conversion factor was 1963. Therefore, the 1973 machinery costs were deflated by the index of machinery prices to 1963 terms (1). The deflated machinery values were multiplied by the kilocalories of fossil fuel energy required per dollar of machinery used. The coefficient presented by Reardon is in BTU's, but is equal to 17,523 kilocalories per dollar. This is an estimate of all direct, indirect and induced fossil fuel considered in the construction of the machinery. The direct energy is that used directly by the plant in construction of the machinery itself. The indirect energy is that used in production of the imputs purchased by the plant. Induced energy is that used by the households of the employees working in the plant. Table XIV shows the kilocalories for machinery dollar used for each cropping scheme. A comparison of Pimentel's calculated machinery energy for corn of 420,000 kilocalories per acre is similar to the estimate of machinery energy for corn in this study, 404,080 kilocalories per acre.

Estimates of kilocalories of fossil fuel energy per unit of diesel, oil and natural gas do not reflect the energy used in production, processing and transportation of these products. To correct for this omission, a ratio of direct to direct, indirect and induced energy was determined for each of the three fuels. The estimated multiplier is 1.30 for diesel and oil and 1.05 for natural gas (4). These ratios were multiplied by the kilocalories of energy in the finished product itself to obtain the total kilocalories of energy used in consuming the input.

It is assumed each hour of labor input used in production requires 544 kilocalories of fossil fuel energy for transportation and other uses. This estimate is based on the work of Pimental (14). He assumed that a farm laborer consumes 21,770 kilocalories of energy per week and works a forty hour week. This is equal to the 544 kilocalories per hour used in this study.

The kilocalories of energy in seed to be planted was obtained from the same source as the produce output kilocalorie energy, the "United States - Canadian Tables of Feed Composition" (18). Table XIV shows the kilocalories of energy per unit for each input and crop product. These values are used as the conversion factors to calculate the kilocalories of input and output energy for each method of production on a per acre basis. Table XV shows the average annual kilocalories of fossil fuel energy by input and the sum for all inputs for each of the conventional, reduced and dryland tillage methods. Table XVI shows the average annual energy produced by method in kilocalories per acre.

TABLE XV

AVERAGE ANNUAL ENERGY FOR INPUTS IN KILOCALORIES PER ACRE FOR DESIGNATED CROPS FOR CONVENTIONAL REDUCED AND DRYLAND TILLAGE

Production Method							INI	PUTS					
	Nitrogen	Phosphate	Herbicide	Insecticide	Diesel	Equip. Lube	Irr. Fuel	Irr. Lube	Planting Seed 1st Crop	Planting Seed 2nd Crop	Labor	Machinery	Total Inpu
Conventional Tillage	KCAL	KCAL	KCAL	KCAL	KCAL	KCAL	KCAL	KCAL	KCAL	KCAL	KCAL	KCAL	KCAL
Corn Grain	1,680,000	76,000	22,000	11,000	425,061	7,591	5,377,995	29,195	31,480	0 ,	1,866	404,080	8,066,268
Wheat	840,000	0	0	0	354,996	6,306	2,784,915	20,320	91,320	0	1,452	202,968	4,302,277
Corn Silage	1,680,000	76,000	22,000	11,000	415,719	7,357	5,377,995	29,195	31,480	0	1,850	403,555	8,056,151
Sorghum Moderate Irrigation	840,000	0	16,500	11,000	467,412	8,408	1,700,055	12,378	9,961	0	1,567	140,710	3,217,021
Rye Graze Out	672,000	60,800	0	0	336,312	6,073	4,106,592	21,955	90,780	0	1,409	191,001	5,492,922
Sorghum Heavy Irrigation	1,260,000	0	16,500	11,000	569,862	10,277	3,869,775	19,269	14,320	0 '	2,192	215,358	5,988,733
Grazed Wheat	672,000	60,800	0	0	336,312	6,073	2,784,386	19,269	91,320	0	1,398	170,674	4,142,232
Sudan Hay	840,000	0	0	0	242,892	4,321	5,377,995	29,195	12,960	0	1,643	270,730	6,779,736
Soybeans	420,000	0	11,000	0	383,022	6,773	5,377,995	29,195	152,280	0	1,703	398,999	6,780,967
Reduced Tillage													
Corn Grain	1,680,000	76,000	16,500	11,000	429,732	7,707	5,377,995	29,195	31,480	, o	1,948	400,050	8,061,607
Silage, and Rye Graze Sand	2,352,000	76,000	16,500	11,000	261,576	4,671	7,441,875	40,873	31,480	90,780	1,719	423,530	10,670,302
Silage and Rye Graze Sand	840,000	0	11,000	0	252,234	4,438	2,632,770	18,685	91,320	0	1,219	157,532	4,009,198
Wheat and Sorphim	2,016,000	0	16,500	11,000	280,260	5,021	4,491,585	32,698	91,320	9,961	1,632	256,186	7,212,163
Wheat-Fallow-Sorghum HIE/	680,400	0	11,000	11,000	107,433	1,868	1,896,388	12,846	30,440	4,696	577	92,697	2,849,345
Wheat-Fallow-Sorghum MI ^C	672,000	0	11,000	11,000	107,433	1.868	1,340,728	9.809	30,440	3,273	484	76,576	2,264,611
Grazed Wheat and Sudan Hay	151,200	0	5,500	0	196,182	3,620	5,688,900	35,034	91,320	12,960	1,605	261,618	6,447,939
Silage and Rye Graze Clay	151,200	0	2,750	11,000	3 5 9,667	6,189	7,706,475	40,873	31,480	90,780	2,154	775,568	9,178,136
Wheat and Soybeans	1,008,000	76,000	27,500	0	168,156	3,036	7,422,030	40,873	91,320	152,280	1,387	451,918	9,442,500
Dryland Tillage													
Theat Clay Loams	504,000				60,723	1,518			68,490		196	18,224	653,151
Theat Sandy Loams	504,000				60,723	1,518			68,490	5	196	18,224	653,151
Sorghum Clay Loam	420,000			11,000	242,892	6,073			5,692		653	36,273	722,583
Sorghum Sandy Loam	252,000			÷	252,234	6,306			5,692		664	35,572	300,468
Small Grain Graze Out Clay	252,000	45,600			182,169	4,554			91,320		479	26,810	602,992
Small Grain Graze Out Land	252,000	45,600			182,169	4,554			91,320		479	26,810	602,922

A/Two Year wheat rotation of conventional tillage year one and reduced tillage year two.

 $[\]underline{B}$ /Heavy Irrigation for three year rotation.

C/Moderate Irrigation for three year rotation.

TABLE XVI

AVERAGE ANNUAL ENERGY FOR OUTPUTS IN KILOCALORIES PER ACRE FOR DESIGNATED CROPS FOR CONVENTIONAL, REDUCED AND DRYLAND TILLAGE

Production Method	OUTPUT								
	1st Crop Yield	2nd Crop Yield	lst Crop Energy Yield	2nd Crop Energy Yield	Total Crop Energy	Grazed Crop	Total Grazing & Crop Energy	Energy B/	
Conventional Tillage	LBS.	LBS.	KCAL	KCAL	KCAL	KCAL	KCAL		
Corn Grain	6,720		10,570,280		10,570,280		10,570,280	1.3	
Wheat	3,300		5,022,600		5,022,600	3,862,333	8,884,933	1.4	
Corn Silage	40,000		13,520,000		13,520,000		13,520,000	1.7	
Sorghum Moderate Irrigation	4,200		5,976,600		5,976,600	661,500	6,638,100	2.1	
Rye Graze Out	•					3,705,784	3,705,784	.9	
Sorghum Heavy Irrigation	6,200		8,822,600		8,822,600	962,100	9,784,700	1.6	
Grazed Wheat						3,862,333	3,862,333	1.1	
Sudan Hay	9,750		10,277,750		10,277,750		10,277,750	1.5	
Soybeans	2,700		4,568,400		4,568,400		4,568,400	.7	
Reduced Tillage		• .							
Corn Grain	7,560		11,899,440	-	11,899,440		11,899,440	1.5	
Silage and Rye Graze Land	40,000		13,520,000		13,520,000	3,705,784	17,225,784	1.6	
Wheat	3,300		5,022,600		5,022,600	3,862,333	8,884,933	1.5	
Wheat and Grain Sorghum	3,000	4,800	4,566,000	6,830,400	11,396,400		11,396,400	1.6	
Wheat-Fallow-Sorghum HI	1,100	2,067	1,674,200	2,941,341	4,615,682	320,700	4,936,382	1.8	
Wheat-Fallow-Sorghum MI	1,100	1,600	1,674,200	2,276,800	3,951,000	220,500	4,171,500	2.0	
Grazed Wheat and Sudan Hay	6,825		7,159,425		7,159,425	3,862,333	11,021,758	1.8	
Silage and Rye-Graze Clay	40,000		13,520,000		13,520,000	3,705,784	17,225,784	1.8	
Wheat and Soybeans	3,000	2,100	4,566,000	3,533,200	8,119,200	•	8,119,200	.9	
Dryland Tillage									
Wheat Clay Loam	990		1,506,780			277,710	1,784,490	2.7	
Wheat Sandy Loam	990		1,506,780			277,710	1,784,490	2.7	
Sorghum Clay Loam	1,100		1,565,300			551,425	3,539,725	4.9	
Sorghum Sandy Loam	2,100		2,988,300			551,425	2,116,725	7.0	
Small Grain Graze Out Clay	-		-			1,904,294	1,904,294	3.2	
Small Grain Graze Out Land						1,904,294	1,904,294	3.2	

 $[\]frac{A}{2}$ Assuming 65 pound bale as standard size.

 $[\]frac{B}{E}$ Energy efficiency is kilocalorie output/kilocalorie input. This measure of efficiency is probably most appropriate for ruminant animals. As similar measure for man and nonruminant animals must consider the ability of the species to assimilate the energy from the crop product.

In the case of inputs the gross energy coefficients are used since it is very difficult to determine an actual energy used coefficient. Gross energy is defined as the amount of heat, measured in calories, that is released when a substance is completely oxidized. The output is measured on the basis of digestable energy rather than gross energy. Digestable energy as a proportion of gross energy varies greatly from one crop to another. Thus output is measured in digestable energy because it is a better measure of the useable energy produced when several crops are to be compared. Therefore, digestable energy is used to determine the kilocalories of energy produced by the output (3):

A measure of energy efficiency, calculated as kilocalories of output divided by kilocalories of input, is also presented for each production method in Table XVI. It should be noted that this measure of efficiency is probably most appropriate for ruminant animals. A similar measure for man and nonruminant animals must consider the ability of the species to assimulate the energy from the crop product. Developing other measures of efficiency was considered beyond the scope of this study. In viewing the energy efficiencies a range of .7 for irrigated conventional tillage soybeans to 7.0 for dryland grain sorghum on clay loam is seen. In general it is evident that the dryland crops generate a higher energy efficiency than the irrigated crops. Furthermore, the reduced tillage cropping systems have a higher energy efficiency, than the irrigated conventional tillage systems. However, the irrigated crops in general generate a higher net return per acre.

CHAPTER IV

REPRESENTATIVE FARMS AND LINEAR PROGRAMMING MODEL

Representative Farms

To define a representative farm situation, the resources available must be specified. This includes the land, water (number and size of wells), labor, capital, institutional constraints, buildings, machinery and equipment. The emphasis on energy use for irrigated production make two resources, the land and water, particularly important in this study. The representative farms defined emphasize alternative combinations of cropland and water. The cropland is specified as clay loam or sandy loam. The water characteristics of concern are the number of wells, depth of wells and gallons per minute.

Representative irrigated farms were defined for the area as part of a previous study (5). The representative farms were defined to denote the alternative land and water resource situations found in surveying farm operations in the area. Since this is the most important aspect of the resource combination for the study, the same representative farms are used here. Although it is impossible to define each farmer's situation, the situations presented encompass the major part of the farming populas.

Characteristics of Representative Situations

The factors or characteristics used as a basis for differentiating between representative situations include three water situations on each of three sizes of irrigated crop farms.

<u>Water Situations</u>

The water situation is divided into three classes based on the saturated thickness. The saturated thickness for case A is 75 feet. It is also assumed there is 75 feet of depth to water and wells yield 400 gallons per minute. Class B represents an area having 250 feet of saturated aquifer and 175 feet of depth to water with wells yeilding 750 gallons per minute. The final class, C, represents an area having 450 feet of saturated aquifer and 125 feet of depth to water yielding 1,000 gallons per minute. These three situations represent the predominate range in depth to water and feet of saturated thickness in the study area. The number of wells per farm depends on farm size and is specified later.

<u>Selected Sizes</u>

The size of the three irrigated crop farms were chosen so that the implications for most actual situations could be determined from one of the examples. Generally, the representative crop farms of 640, 1,600, and 2,800 acres used are consistent with the small, medium, and large farms in the area of study. Minor differences occur for the purpose of equating representative sizes with common blocks of land in multiples of 80 or 160 acres. For the same reason, cropland acreages

are slightly different. The 640-acre farm has 560 acres of cropland, the 1,600-acre operation has 1,440 cropland acres and the 2,880-acre unit has 2,680 acres of cropland. The percent of cropland in the total operation varies from 87.5 to 93 percent. The crop farm situations are referred to hereafter as I, II, and III for the respective cropland acreage of 560, 1,440 and 2,680.

The three water situations are combined with the three farm sizes to define nine representative farms. While the gallons pumped per minute is the same for farm sizes in a given water situation, the number of wells per farm varies by size of farm. The 560-acre unit has two wells for "Class A" and "B" and one well for "Class C" water. The 1,440-acre operation has three wells in the first two cases and two wells for "Class C". The final situation made up of 2,680 acres includes six wells in "Class A and B' and four wells in the "Class C" situation.

The amount of labor available by size of farm is taken from a study by Roy Hatch (6) on "Growth Potential and Survival Capability of Southern Plains Dryland Farms." The study specified the number of days and hours per day that could be devoted to the business by the owner operator. Depending on the farm size a certain amount of time was alloted for managerial work. The remaining time could then be devoted to actual farm labor. This study assumes the hours needed for managerial purposes are one-half hour per day for the 560 acre farm, one and one-half per day for the 1,440 acre farm, and two and one-half per day for the 2,680 acre farm. The remaining hours per day and month can then be used for direct farm labor purposes. One other labor restriction is the maximum number of hours that can be used in certain time

periods, specifically for double cropping schemes. The critical months for each farm are June, September, and October. In each case the critical period represents the maximum time available to harvest one crop and plant the second. The hours available in a critical period was determined in the following manner: number of tractor(s) per farm times seven working days at twelve hours per day. Therefore, a limit has been placed on these months which are defined as critical periods for double cropping schemes.

The final farm characteristic deals with a monthly and annual limit that was placed on the amount of water that can be pumped on each size of farm and irrigation situation based on the number of wells and GPM. Table XVII shows the three representative farm situations and the characteristics associated with each of the situations.

Linear Programming Model Construction

The type and construction of the model developed are a vital part of this study. The validity of solutions and their potential use rely on the ability of the model to perform the desired mechanics and answer the major objectives. An optimum combination of resources and products must be obtained for specified situations through the use of the model.

The model contains three types of constraints: real, accounting, and a group specified in this study as all others. The model also includes three categories of activities: production, marketing and resource supplying. The following describes each constraint and activity category. Appendix B shows the complete LP matrix and its coefficients

Seven working days as assumed over the two-week period to allow for bad weather and down time for maintenance and repairs.

TABLE XVII

REPRESENTATIVE FARMS, I, II AND III UNDER THREE WATER SITUATIONS ASSUMING FULL OWNERSHIP

ITEM		Farm Situation								
	Unit	I			II			III		
		Class A Water	Class B Water	Class C Water	Class A Water	Class B Water	Class C Water	Class A Water	Class B Water	Class C Water
Land Specifications										
Land Operated	AC	640	640	640	1,600	1,600	1,600	2,880	2,880	2,880
Cropland	AC	560	560	560	1,440	1,440	1,440	2,680	2,680	2,680
Water Specifications										
Saturated Aquifer	FTA/	75	250	450	75	250	450	75	250	450
Depth to Water	FT	75	175	125	75	175	125	75	175	125
Number of Wells		2	2	1	3	3	2	6	6	. 4
Gallons Per Minute		400	750	1000	400	750	1,000	400	750	1,000
Monthly Labor Availability										
January	HRS	165	165	165	143	143	143	121	121	121
February	HRS	150	150	150	130	130	130	110	110	110
March	HRS	165	165	165	143	143	143	121	121	121
April	HRS	187	187	187	165	165	165	143	143	143
May	HRS	187	187	187	165	165	165	143	143	143
June	HRS	209	209	209	187	187	187	165	165	165
July	HRS	209	209	209	187	187	187	165	165	165
August	HRS	209	209	209	187	187	187	165	165	165
September	HRS	209	209	209	187	187	187	165	165	165
October	HRS	209	209	209	187	187	187	165	165	165
November	HRS	187	187	187	165	156	165	143	143	143
December	HRS	165	165	165	143	143	143	121	121	121
Limited Labor										
Months June 8-22	HRS	84	84	84	168	168	168	366	366	366
October 1-15	HRS	84 84	84 84	84 84	168	168	168	366	366	366
September 15-29	HRS	84 84	84	84 84	168	168	168	366	366	366
Irrigation							•			
Availability										
Per Month	ACIN	1,066	2,000	1,333	1,600	3,000	2,667	3,200	6,000	5,333
Annual	ACIN	10,000	20,000	12,000	15,000	30,000	25,000	30,000	56,000	50,000

An aquifer is a water saturated geologic unit that will yield water to wells or springs at a sufficient rate so that the wells or springs can serve as a practical source of water supply. Source: Ground Water Wells, (1972) p. 21.

along with a list describing each constraint and activity used in the model.

Objective Functions

The model includes four objective functions designated as OBJ1, OBJ2, OBJ3, and OBJ4. OBJ1 is specified as maximization of net returns. It is that amount returned to land, management, risk, and overhead. OBJ2 is the kilocalorie input requirements for the cropping alternatives. OBJ3 is the calorie output which is simply the kilocalorie energy created by each unit produced of that crop. OBJ4 is the net kilocalorie energy for the crops or simply the difference between the kilocalories of output (OBJ3) and input (OBJ2).

Programming Constraints

Real Constraints

The model includes four groups of real constraints. The first, land, is divided into two categories, Cropland Clay Loam and Cropland Sandy Loam. The division of soils was made because of the difference in input-output coefficients for the two groups. The clay soil is irrigated with a surface irrigation system. However, the sandy soil uses a circular sprinkler irrigation system with a somewhat more limited choice of cropping schemes.

The next group of real constraints are twelve monthly labor restrictions. The third group of real constraints, irrigation requirements by period, form a major constituent of the model. One constraint is included for each of the nine monthly periods of March through November.

The unit of measure for the constraints is the acre inch. The months deleted, January, February and December, do not require irrigation water for any of the cropping alternatives considered.

The next real constraint is the amount of capital available for use. This has been divided into two parts, operating capital and investment capital. The constraints do not limit the amount of capital that can be borrowed, but require that an interest charge of ten percent and eight percent be paid on each dollar of operating and investment capital used, respectively.

Accounting Constraints

An accounting constraint is included for each product that can be produced with the activities considered. These constraints are used to determine the amount produced by the optimal solution for the farm situations. A constraint is included for wheat grain, grain sorghum, soybeans, small grain graze out and each of the other possible products as noted in Appendix B.

The second group of accounting constraints are input restrictions. These restrictions are used to determine the amount of the individual energy inputs required by the optimum farm organization. These are much like the capital constraints in that they are not restricted to a maximum limit. These eight items nitrogen, phosphate, insecticides, herbicides, diesel, oil, natural gas and machinery represent the major fossil fuel energy inputs used for production of the crops considered in this study.

Other Constraints

The constraints discussed in this section are needed so that one model can be used for all representative farms and objectives of the study. The first two labeled MCT and MMT (Maximum Conventional and Minimum Tillage) are included so the solution can be restricted to include either conventional or reduced tillage methods of production.

The next two SIS (surface irrigation system) and CSIS (circular irrigation system) are used to limit the solution for any situation to the proper irrigation system. After a specified soil type is chosen, the irrigation system constraint allows for the proper system to be used in selecting the optimal plan. This avoids additional model building. Next are the LSI (limit surface irrigation) and LCSI (limit circular sprinkler irrigation) which serve as accounting constraints in determining the total acre inches of irrigation water pumped corresponding with the proper system in each optimum organization. One constraint LNGW (limit natural gas water) determines the total variable cost associated with the specified solution set and also can be used to specify natural gas if additional irrigation fuels are added to the model. Then the proper fuel specified can be made in future studies. with the one model. The next group of (FVS42-FVS104, FVC42-FCS104) constraints is used to insure that the proper variable cost of pumping is used for each farm situation. While the final set of constraints (NRC1-9, NRS1-9) insure that the corresponding fixed cost for that farm situation is used. Again these can be found in Appendix B.

Programming Activities

Production Activities

The model includes twenty-four crop producing activities. The activity titles indicate the crop(s) produced by each. The total includes nine conventional tillage schemes, nine reduced tillage schemes both requiring irrigation facilities, and six dryland crop activities. The production methods represented by these twenty-four activities are discussed in detail in Chapter III and are not repeated here. Examples are conventional wheat grain, conventional sudan hay, minimum wheat soybean double crop, minimum corn grain, dryland wheat and grain sorghum as discussed in detail earlier.

Marketing or Selling Activities

Here again the name suggests the purpose of the activity. These activities enable the model to sell the crops produced. The model also includes selling activities for grazing produced since no livestock to utilize the forage are included in the analysis. The model includes selling activities for corn, corn silage, wheat, sorghum, sudan hay, and soybeans. Grazing sell activities are included for small grain graze out October through May, small grain graze out November through March and grain sorghum stubble November through January.

Resource Supplying Activities

A resource supplying and purchasing activity is included for each of the resources that can be purchased from off the farm. A resource supply activity is included for capital, hiring labor in each of the

twelve months and to purchase each of the eight inputs discussed earlier. There are two cost activities involved for each irrigation system, one activity to indicate the fixed cost and one including the variable cost of pumping the irrigation water. One pair of cost activities (fixed and variable) is included for a surface system and one for a center pivot system on each of the nine soil-water situations making eighteen pairs in total.

Right Hand Sides or Constraints Levels

The information defining representative farms in Table XVII is used in the right hand side (RHS) for representative farms. Other RHS values are selected to limit the solution to the relevant activities for the situation. The detailed matrix (constraints, activities, RHS) can be found with a complete explanation of each row and column in Appendix B.

CHAPTER V

RESULTS OF LINEAR PROGRAMMING MODEL

This chapter presents the linear programming analysis for each of the eighteen representative farm situations described in Chapter III. All combinations of three farm sizes, three water situations and two soil classifications make up the representative situations analyzed. Two objective functions OBJ1 (net returns) and OBJ4 (net kilocalories), were maximized in the analysis of this study. Maximization of net returns was selected because it is the customary objective used in selecting an optimum farm organization. The model was also used to solve for the organization that maximizes net kilocalories of output to determine the effect of using this measure of physical efficiency on the methods of production used, output level and net returns to fixed resources. I

The results are presented in three major sections. The first section describes the results for optimization of objective function one. The second section is very similar except the description is for objective function four. The third major section contrasts the organization obtained for the two objective functions.

The first two sections are subdivided based on farm size and water situations. Optimal solutions are presented for farms having clay loam

The time available for this study did not permit considering other objective functions and other price levels of fossil fuel inputs.

soils as well as sandy loam soils, under each objective function.

The final section is subdivided into two parts based on soils.

The optimal solutions for the two objective functions are contrasted by farm size and water situation under each soil classification.

Objective Function One 560 Cropland Acres

Clay Loam Soils

Table XXIII shows the optimum organization for the 560 acre farm under its respective irrigation situations. The labeling used throughout the results presentation is I, II, or III describing farm size, and A, B, or C for the water situation as described in Chapter IV. These are combined and written as IA, IB, IC, etc. to refer to the farm size and water situation.

Organization IA has a pumping capacity of 800 GPM. The optimum solution includes 9.2 acres of a two-year rotation of wheat produced under conventional tillage the first year and reduced tillage the second year (RWG2RCRC). This is accompanied by 71.8 acres reduced tillage wheat-grain sorghum double crop (RWGSDC) and 294.6 acres of reduced tillage wheat-fallow-sorghum in a three-year rotation under heavy irrigation (RWFS3HI). The remaining 184.4 acres are devoted to dryland wheat (DLW).

Of the 560 acres, 375.6 are irrigated and all utilize a reduced tillage cropping scheme. The optimum plan requires 5,773 acre inches of irrigation water annually and all of the capacity for May and July. There are 577 hours of operator labor required with an additional 174

TABLE XVIII

560 ACRE CLAY LOAM FARM OPTIMAL SOLUTIONS
OBJECTIVE FUNCTION ONE

Identification	Units		560 Acres	;	
Number of Wells		Two	Two	0ne 1000	
Total GPM		800	1500		
Solution Number:		IA	IB	IC	
Net Returns	DOL.	23,785	30,668	26,689	
Net Kilocalories	MILLION	1,220.45594	925.59538	1,353.33517	
Irrigated CropsA/					
CSB	AC		112.3		
RWG2RCRC RWGSDC	AC AC	9.2 71.8	29.0 71.7	3.6 71.7	
RWFS3HI	AC	294.6	346.8	405.8	
Dryland CropsA/					
DLW	AC	184.4		78.7	
Crop Products <u>B</u> /					
SGGONM	AUM	170	143	165	
GSNJ Wheat	AUM Bu	135 12,543	159 11,578	186 12,521	
Grain Sorghum	CWT	9,535	10,616	11,835	
Soybeans	BU		5,056		
Cropping System $\underline{\mathbb{C}}/$					
CT RT	AC AC	375.6	112.3 447.7	481,2	
Total Irrigation					
Water Used	ACIN	5,773	9,433	7,014	
Labor	*				
Operator Labor	HR.	577	903	638	
Hired Labor	HR.	174	231	180	
Annual Capital Used					
Operating	DOL.	9,405	10,801	10,006	
Investment	DOL.	19,326	37,781	21,821	
Energy Inputs	•				
Nitrogen	CWT	531	539	552	
Phosphate Herbicide	CWT . LB.	412	596	517	
Insecticide.	LB.	336	419	478	
Diesel	GALS.	1,398	2,306	1,486	
0i1	QTS.	645	1,072	761	
Natural Gas	1000 CUFT.	3,421.632	6,276.205	4,163.614	
Machinery	DOL.	2,883	5,703	3,311	

A/CSB, Conventional tillage soybeans; RWG2RCRC, Reduced tillage wheat grain two year rotation of conventional tillage year one, reduced tillage year two; RWGSDC, Reduced tillage wheat grain sorghum double crop; RWFS3HI, Reduced tillage wheat-fallow-sorghum three year rotation heavy irrigation; DLW, Dryland tillage wheat.

 $[\]underline{\mathsf{B}}'\mathsf{SGGONM},$ Small grain graze out November-March; GSNJ, Grain Sorghum stubble graze November-January.

 $[\]underline{\text{C}'}\textsc{For}$ irrigated acreage only, CT refers to conventional tillage and RT -means reduced tillage.

hours of labor being hired. The operation requires \$9,405 of operating capital and \$19,326 of investment capital for machinery and equipment for a total capital expense of \$28,730.

Input requirements include 53,080 pounds of nitrogen along with 412 pounds of herbicide, 336 pounds of insecticide, 1,398 gallons of diesel, 645 quarts of oil, 3,421,632 cubic feet of natural gas for irrigation purposes and \$2,883 of machinery. The dollars of machinery input equals the dollar value of depreciation and repairs, a measure of the amount of machinery "used up" in producing the crop.

The crops selected in the solution set produce 170 AUM's of small grain grazing November through March (SGGONM) and 135 AUM's of grain sorghum stubble from November to January. In addition to 12,543 bushels of wheat grain and 953,500 pounds of grain sorghum. This solution generates a net return of \$23,785 and a net kilocalorie output of 1,220,445,940.

The larger amount of water available in solution IB increases total irrigated production by 184.4 acres (Table XVIII). This includes an additional 112.3 acres of conventional tillage soybeans (CSB), and 29.0 acres of a two-year rotation of wheat produced under conventional tillage the first year followed by reduced tillage the second year (RWG2RCRC) which is an increase of 19.8 acres over solution IA. This solution also includes 71.7 acres of reduced tillage wheat-grain sorghum double crop (RWGSDC), while a reduced tillage three-year rotation of wheat-fallow-sorghum with heavy irrigation (RWFS3HI) is increased by 52.2 acres to total 346.8 acres. All 560 acres of cropland are irrigated and no dryland production is included in the solution.

The solution includes 112.3 acres of irrigated conventional tillage

and 477.7 acres of reduced tillage production. The amount of irrigation water applied increased by 3,660 acre inches to a total of 9,433 acre inches. The labor required also increases to 903 hours of operator labor and 231 hours of hired labor - an increase of 383 hours of labor for the total farm. The amount of capital required increases to \$10,801 for operating and \$37,781 for investment capital. This generates a combined total of \$48,582 of capital, an increase over IA of \$19,851.

The amount of inputs required also increases. Nitrogen required increases to 53,850 pounds, an increase of 770 pounds, while herbicide use increases by 184 pounds to 596 pounds. Insecticide used increases by 82 pounds to a total of 419 pounds, due to the increased acreage of grain sorghum. The diesel requirement totals 2,306 gallons or 909 gallons more while oil increases to a total of 1,072 quarts, 427 quarts more. Increasing the amount fo water pumped increases the cubic feet of natural gas needed by 2,854,576. Machinery depreciation and repairs total \$5,703 or \$2,820 more than solution IA.

Net returns for this solution are \$30,668 or a \$6,883 increase. However, the surprising result is that the net kilocalories of output decreased by 29,486,060. This decrease results from the increased use of natural gas and the relatively low net kilocalorie output of soybeans.

The third solution IC falls between the previous two discussed because the GPM available on the farm is more than farm IA but less than IB. The solution includes 3.6 acres of reduced tillage wheat grain two-year rotation of conventional tillage in year one and reduce tillage in year two (RWG2RCRC) which is 25.4 acres less than IB and 5.6 acres less than IA. As in the first two solutions, the reduced tillage wheat

grain sorghum double crop is again 71.7 acres. However, the acreage of reduced tillage wheat-fallow-sorghum three-year rotation heavy irrigation (RWFS3HI) is 111.2 acres more than solution IA and 59 acres greater than IB. This solution includes 78.7 acres of dryland wheat, 105.7 less than IA.

As in solution IA all of the irrigated production uses reduced tillage methods. The irrigation water required totals 7,014 acre inches, 1,241 acre inches more than IA and 2,419 acre inches less than IB. The labor required includes 638 hours of operator labor and 180 hours of hired labor. This is 316 less total hours than IB and 67 more hours than IA. Operating capital needs are \$10,006 while investment capital requirements are \$21,821. This totals \$31,827, \$16,755 less than IB and only \$3,096 more than IA.

Some input requirements are greater than the previous solutions while others are less. For example, the amount of nitrogen used totals 55,190 pounds, 1,879 pounds more than IB and 2,641 pounds more than IA. Herbicide usage totals 517 pounds, 79 pounds less than IB and 106 pounds more than IA. As in the case of nitrogen, insecticide usage is greater than either of the other two. It is 141 pounds more than IA and 59 pounds more than IB.

Both the increased nitrogen and insecticide, are due to the increase in grain sorghum acreage. Diesel use totals 1,486 gallons which is 88 gallons more than IA and 820 gallons less than IB. Also 761 quarts of oil are required. This is 115 more than IA and 312 less than IB. The cropping program requires 2,112,590 cubic feet less natural gas than IB, but 74,198 cubic feet more natural gas than IA. Machinery depreciation and repairs totaled \$3,311, \$428 more than IA

and \$2,391 less than IB.

The net returns of \$26,689 also fell between IA and IB. The net kilocalories of output totals 1,353,335,170, 132,879,230 more than IA and 427,739,790 kilocalories more than IB. This occurs because the solution for IC includes no soybeans which have a low net output of kilocalories and an increase in grain sorghum acreage has a relatively high net output of kilocalories. It is evident from these three solutions that the water situations are an important factor in determining the optimum solution. Their variation is a major factor of the model outcome.

Sandy Loam Soil

Table XIX shows the results for the 560 acre farms for the sandy loam soils. As mentioned in Chapter IV, the net returns on sandy loam soil are lower because high irrigation costs are associated with the circular sprinkler systems required.

Situation IA includes 42.2 acres of reduced tillage corn grain (RCG) and 103.7 acres of reduced tillage wheat grain and soybean double crop (RWGSBDC) accompanied by 414.1 acres of dryland grain sorghum (DLGSS).

No irrigated production with conventional tillage was used, but 145.9 acres of reduced tillage was incorporated in the solution. There are 4,435 acre inches of irrigation water used, 873 hours of operator labor required and an additional 36 hours of labor are hired. Capital requirements are \$8,992 of operating and \$40,424 of investment capital, for a total requirement of \$49,416.

The inputs are as follows: 41,590 pounds of nitrogen, 7,290 pounds

TABLE XIX

560 ACRE SANDY LOAM FARM OPTIMAL SOLUTIONS OBJECTIVE FUNCTION ONE

Identification	Units		560 Acres			
Number of Wells		Two	Two	0ne		
Total GPM		800	1500	1000		
Solution Number:		IA	IB	IC		
Net Returns	DOL.	10,367	867	9,277		
Net Kilocalories	MILLION	1,191.30269	1,328.83645	1,234.28077		
Irrigated CropsA/						
RCG RWGSBDC	AC AC	42.2 103.7	176.9 103.7	84.3 103.7		
Dryland Crops ^A /			•			
DLGSS	AC	414.1	279.3	371.9		
Crop Products \underline{B} /						
GSNJ AUM Corn BU Wheat BU Grain Sorghum CWT Soybeans BU		310 5,698 5,185 8,696 3,629	209 23,889 5,185 5,866 3,629	278 11,833 5,185 7,812 3,629		
Cropping System ^C /						
CT RT	AC AC	145.9	280.7	188.0		
Total Irrigation						
Water Used	ACIN	4,435	7,669	5,445		
Labor						
Operator Labor Hired Labor	HR. HR.	873 36	1,092 134	964 95		
Annual Capital Used						
Operating Investment	DOL. DOL.	8,992 40,424	13,441 73,724	10,382 43,284		
Energy Inputs			•			
Nitrogen Phosphate Herbicide Insecticide Diesel Oil Natural Gas	Phosphate CWT Herbicide LB. Insecticide LB. Diesel GALS. Oil QTS.		618 140 525 456 3,454 1,094 6,505.493	479 94 386 456 3,083 849 4,622.608		
Machinery	CUFT. DOL.	4,495	7,293	5,369		

 $[\]frac{\Delta}{R}$ RCG, Reduced tillage corn grain; RWGSBDC, Reduced tillage grain soybean double crop; DLGSS, Dryland tillage grain sorghum sandy soil.

 $[\]underline{B}/\text{GSNJ},$ Grain sorghum stubble November-January.

 $[\]underline{^{C}/}_{\text{For irrigated acreage only, CT refers to conventional tillage and RT means reduced tillage.$

of phosphate, 323 pounds of herbicide, 456 pounds of insecticide, 2,914 gallons of diesel, 738 quarts of oil, 3,766,746 cubic feet of natural gas and \$4,495 for machinery depreciation and repairs. The operation returned \$10,367 and generated a net kilocalorie output of 1,191,302,690. The high investment cost is accounted for by the high cost of the sprinkler system.

Solution IB includes an increase of 134.7 acres of reduced tillage corn grain (RCG) to total 176.9 acres while reduced tillage wheat-soybean double crop remains constant at 103.7 acres. However, the dryland grain sorghum (DLGSS) is reduced to a total of 279.3 acres.

The increase in corn grain employed an additional 134.7 acres of reduced tillage or 280.7 acres. The increased acreage also increases the total amount of irrigation water to 7,669 acre inches, 3,234 more than solution IA. Both operator and hired labor increased substantially to 1,092 and 134 respectively to total 1,226 hours, 317 more than IA. the operating capital amounts to \$13,441 while investment jumped to \$73,724 for a total of \$87,165. This increase of \$37,749 over IA is easily accounted for by the additional sprinkler system required in IB.

An increase of all inputs also is evident with nitrogen at 61,800 pounds, while phasphate increases to 14,030 pounds. Herbicides also increases to 525 pounds. The sole input that remains the same as for situation IA is 456 pounds of insecticide. Diesel also increases to 3,454 gallons, while oil increases to 1,094 quarts. Natural gas increases to 6,505,493.83 cubic feet, while machinery depreciation and repairs increases to \$7,293.

The surprising result is the net return of only \$867, \$9,500 less than IA. However, this decrease is accounted for by the high variable

and fixed cost associated with the two sprinkler systems and the increase in inputs required. The net kilocalories produced increased to 1,328,836,450.

The third solution, IC, like the IC clay loam solution falls between the previous two in most respects. The solution includes 84.3 acres of reduced tillage corn grain (RCG). Again, as in IA and IB, reduced wheat-soybean double crop (RWGSBDC) remains at 103.7 acres while dryland grain sorghum employs 371.9 acres (Table XIX).

There is a slight decrease in reduced tillage crops. Solution IB includes 280.7 acres compared to 188 for IC, while IA has 145.9 acres. The total irrigation water required is 5,445 acre inches which is 1,010 more than IA and 2,224 less than IB. The labor requirements total 1,059 hours of which 964 is operator labor and 95 is hired labor. Capital requirements dropped considerably from IB due to the need for only one sprinkler system. Total capital is \$53,666 composed of \$10,382 for operating and \$43,284 for investment. This is \$30,440 less than IB. However, it is \$4,249 more than the amount required by IA.

As in the previous case inputs required lie between the two earlier discussed solutions. A required 47,910 pounds of nitrogen is needed, while phosphate required 9,400 pounds. Herbicides total 386 pounds while again 456 pounds of insecticides are used. Diesel is at 3,083 gallons along with 849 quarts of oil. The natural gas requirement is 4,622,608 cubic feet while the machinery depreciation and repairs of \$5,369 is greater than the amount for IA, but less than the amount required for IB.

The net returns of \$9,277 are greater than IB but less than IA.

The major factor explaining this differences is the irrigation cost,

since solution IC requires only one sprinkler system. The net kilo-calories produced total 1,234,280,770, an amount greater than the total for IA, but less than IB.

1440 Cropland Acres

Clay Loam Soils

The solutions discussed above refer to the small farm size with each of three water situations and two soil groups. The remainder of the discussion of objective function one solutions mentions only those differences which add an interesting dimension to the study.

The order of presentation of the 1440 and 2680 acre representative farms follows that of the 560 acre solutions presented earlier. The first solution discussed is the optimal organization for situation IIA having three wells, a total of 1200 GPM and 1440 acres.

The optimal solution (Table XX) includes 29.5 acres of reduced tillage two-year wheat rotation of conventional tillage in year one and reduced tillage in year two (RWG2RCRC), 143.6 acres of reduced tillage wheat and grain sorghum double crop (RWGSDC), and 367.5 acres of reduced tillage wheat-fallow-sorghum three year rotation moderate irrigation (RWFS3HI). In addition to 899.4 acres of dryland, all of the 540.6 acres of land under irrigation is in reduced tillage. This acreage requires 9,075 acre-inches of irrigation water. Labor totals 1,480 hours of which 976 is operator and 504 is hired labor. Required operating capital is \$20,911 while investment is \$33,913.

Needed inputs are made up of 121,140 pounds of nitrogen, 612 pounds of herbicide, 511 pounds of insecticide, 3,035 gallons of diesel,

TABLE XX

1440 ACRE CLAY LOAM FARM OPTIMAL SOLUTIONS
OBJECTIVE FUNCTION ONE

Identification	Units			
Number of Wells		Three	Three	Two
Total GPM		1200	2250	2000
Solution Number:		IIA	IIB	IIC
Net Returns	DOL.	42,605	59,019	55,630
Net Kilocalories	MILLION	2,538.17725	3,234.92227	3,069.19649
Irrigated CropsA/				
RWG2RCRC RWGSDC RWFS3HI	AC AC AC	29.5 143.6 367.5	.3 143.6 950.9	7.1 143.6 812.1
Dryland CropsA/				
DLW	AC	899.4	345.2	477.0
Crop Products ^B /				
SGGONM GSNJ Wheat Grain Sorghum	AUM AUM Bu Cwt	465 169 30,411 14,489	434 437 30,295 26,546	442 373 30,322 23,679
Cropping System ^C /				
CT RT	AC AC	 540.6	1,094.8	962.9
Total Irrigation		j.		
Water Used	ACIN	9,075	15,579	14,032
Labor				
Operator Labor Hired Labor	HR. HR.	976 504	1,186 654	1,138 616
Annual Capital Used		•		
Operating Investment	DOL.	20,911 33,913	24,064 57,870	23,314 45,942
Energy Inputs			•	
Nitrogen Phosphate	CWT CWT	1,211	1,322	1,296
Herbicide Insecticide Diesel Oil	LB. LB. GALS. QTS.	612 511 3,035 1,102	1,167 1,094 3,499 1,707	1,035 956 3,389 1,563
Natural Gas	1000 CUFT.	5,364.859	9,255.400	8,330.007
Machinery	DOL.	5,244	7,491	6,957

 $[\]underline{A}'$ RWG2RCRC, Reduced tillage wheat grain two year rotation of conventional tillage year one, reduced tillage year two; RWGSDC, Reduced tillage wheat grain sorghum double crop; RWFS3HI, Reduced tillage wheat-fallow-sorghum three year rotation heavy irrigation; DLW, Dryland tillage wheat.

 $[\]underline{Bf}_{\rm SGGONM}$, Small grain graze out November-March; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{\text{C}}/\text{For}$ irrigated acreage only, CT refers to conventional tillage and RT means reduced tillage.

1,102 quarts of oil, 5,364,859 cubic feet of natural gas and \$5,244 of machinery depreciation and repairs. This solution generates a net return of \$42,605 and a net kilocalorie energy output of 2,538,177,250.

Solution IIB has only .3 acres of reduced tillage two-year wheat rotation of conventional tillage in year one and reduced tillage in year two (RWG2RCRC), the same acreage (143.6) of reduced tillage wheat and grain sorghum double crop (RWGSDC), and a greater acreage (950.9) of reduced tillage wheat-fallow-sorghum three year rotation heavy irrigation (RWFS3HI). Dryland wheat decreased to 345.2 acres.

All irrigated production (1094.8 acres) utilizes reduced tillage methods. A total of 15,579 acre inches of irrigation water is utilized while 1,186 hours of operator labor and 654 hours of hired labor is employed. Capital requirements are \$24,064 for operating capital and \$57,870 needed for investment capital.

An increase occurred in the case of all inputs with nitrogen at 132,230 pounds, 1,167 pounds of herbicide, 1,094 pounds of insecticide, 3,499 gallons of diesel, 1,707 quarts of oil and a large increase of 3,890,541 cubic feet of natural gas to total 9,255,400. The final input, machinery depreciation and repairs, totaled \$7,491. Net returns are \$59,019 while net kilocalories of output total 3,234,922,270.

As in the small farm situations the acreage included in solution IIC falls between IIA and IIB. The organization includes 7.1 acres of reduced tillage two-year wheat rotation of conventional tillage in year one and reduced tillage in year two (RWG2RCRC), 143.6 acres of reduced tillage wheat and grain sorghum double crop (RWGSDC) and 812.1 acres of reduced tillage wheat-fallow-sorghum three year rotation heavy irrigation (RWFS3HI). Dryland wheat acreage is 477 comparing solutions IIA,

IIB and IIC indicates there is less difference between solutions for IIB and IIC than between IIA and IIC.

This is accounted for by the fact that there is less difference between the GPM available for IIB and IIC than IIA and IIC. This difference is true for all the farm sizes and soil types discussed in this chapter.

The solution for situation IIC requires 14,032 acre-inches of irrigation water, (Table XX) 1,138 hours of operator labor, and an additional 616 hours of hired labor. Operating capital totals \$23,314 and investment capital totals \$45,942. The inputs required include 129,590 pounds of nitrogen, 1,035 pounds of herbicide, 956 pounds of insecticide, 3,389 gallons of diesel, 1,563 quarts of oil and again a somewhat smaller amount of natural gas than solution IIB but an amount larger than solution IIA. It totals 8,330,007 cubic feet, which is only 925,393 cubic feet less than IIB and 2,965,148 more than IIA. Machinery depreciation and repair requirements are \$6,957. The net returns generated are \$55,630 while net kilocalories of output are 3,069,196,490.

It is obvious the larger water supplies considered on the 1440 acre farm induce a cropping scheme that produces both greater net returns and net kilocalories of output.

Sandy Loam Soils

Solution IIA for the intermediate size farm includes 200 acres of reduced tillage wheat and soybean double crop (RWGSBDC) and 1,240 acres of dryland grain sorghum (Table XXI). Total reduced tillage is 200 acres while zero acres are planted to irrigated conventional tillage methods.

TABLE XXI

1440 ACRE SANDY LOAM FARM OPTIMAL SOLUTIONS OBJECTIVE FUNCTION ONE

Identification	Units		1440 Acres	
Number of Wells		Three	Three	Two
Total GPM		1200	2250	2000
Solution Number:		IIA	IIB	IIC
Net Returns	et Returns DOL.		13,646	22,073
Net Kilocalories	MILLION	3,228.59608	3,197,92614	3,370.18875
Irrigated Crops ^A /				
RWGSBDC RCG	AC AC	200.0	207.4	207.4 168.8
Dryland CropsA/				
DLGSS	AC	1,240	1,232	1,063
Crop Products <u>B</u> /				
GSNJ Wheat Grain Sorghum Soybeans Corn	AUM BU CWT BU BU	930 10,000 26,040 7,000	924 10,370 25,884 7,259	797 10,370 22,340 7,259 22,784
Cropping System ^C /		1.		
CT RT	AC AC	200	207.4	376.2
Total Irrigation				
Water Used	ACIN	6,600	6,844	10,894
Labor				
Operator Labor Hired Labor	HR. HR.	1,022 1,138	1,034 1,142	1,210 1,365
Annual Capital Used				
Operating Investment	DOL. DOL.	18,837 94,365	18,915 119,499	24,488 93,815
Energy Inputs		•		
Nitrogen Phosphate Herbicide Insecticide Diesel Oil Natural Gas	CWT CWT LB. GALS. QTS. 1000 CUFT.	860 100 500 1,240 7,168 1,397 5,610.000	865 104 519 1,233 7,156 1,421 5,817.777	1,118 188 772 1,233 7,831 1,866 9,248.039
Machinery	DOL.	7,725	7,901	11,404

 $[\]underline{A'}$ RWGSBDC, Reduced tillage grain soybean double crop; DLGSS, Dryland tillage grain sorghum sandy soil, RCG, Reduced tillage corn grain.

 $[\]underline{B}^{\prime}\mathsf{GSNJ},$ Grain sorghum stubble graze November-January.

 $[\]underline{\text{C}\prime}_{\text{For irrigated acreage only, CT refers to conventional tillage and RT means reduced tillage.}$

A total of 6,600 acre inches of irrigation water are needed along with 2,160 hours of labor of which 1,022 is operator labor and 1,138 are hired labor. Capital includes \$18,837 for operating, and \$94,366 for investment needs.

Inputs include 86,000 pounds of nitrogen, 10,000 pounds of phosphate, 500 pounds of herbicide, 1,240 pounds of insecticide, 7,168 gallons of diesel, 1,397 quarts of oil, 5,610,000 cubic feet natural gas, and \$7,724 of machinery depreciation and repairs. A total of \$21,132 in net returns and 3,228,596,080 in net kilocalories of output is generated by solution IIA.

Solution IIB follows much the same pattern the solution for the 560 acre sandy loam farm. The reduction in returns to only \$13,646 and to 3,197,926,140 kilocalories of net output is again accounted for by the high cost of irrigation associated with the 750 GPM wells under sprinkler irrigation. Crops include 207.4 acres of reduced tillage wheat and soybean double crop (RWGBDC) along with 1,232 acres of dryland grain sorghum.

Because of the high water pumping and distribution costs, irrigated production is only 7.4 acres greater than in solution IIA. The low net returns result from the additional \$25,133 investment capital required for the additional sprinkler system, that is, three systems for IIB compared to two for IIA. Reduced tillage production totals 207.4 acres, slightly more than is included in solution IIA. The amount of inputs required by solution IIB are slightly higher in most cases than for solution IIA. However, the quantity of insecticide and diesel is slightly less for IIB than IIA because of the decrease in dryland grain sorghum.

The solution for situation IIC on sandy soil has lower variable irrigation cost than IIB, resulting in an increase in irrigated acreage. In addition to the 207.4 acres of reduced tillage two-year wheat rotation of conventional tillage in year one and reduced tillage in year two (RWG2RCRC), the solution also includes 168.8 acres of reduced tillage corn grain (RCG). The increase in irrigated crops reduces dryland grain sorghum to 1,063 acres. The amount of reduced tillage cropping system, irrigation water, operator labor, hired labor and operating capital are all greater than the corresponding amount for either solution IIB or IIA. However, the amount of investment capital is reduced to \$92,815 because of the need for only two sprinkler systems rather than three.

The amount of each of the inputs increases as shown in Table XXI.

Net returns are \$22,073 while the net kilocalories of output are

3,370,188,750. Both of these totals are greater than the corresponding values for solutions IIA and IIB.

2680 Cropland Acres

Clay Loam Soil

Solution IIIA listed in Table XXII, includes 58.9 acres of reduced tillage two-year wheat rotation of conventional tillage year one and reduced tillage year two (RWG2RCRC), 287.2 acres of reduced tillage wheat and grain sorghum double crop (RWGSDC) and 735 acres of reduced wheat-fallow-sorghum three year rotation heavy irrigation (RWFS3HI), in addition to 1,598.8 acres of dryland wheat.

Reduced tillage acreage comprises a total of 1,081.2 acres. The

TABLE XXII

2680 ACRE CLAY LOAM FARM OPTIMAL SOLUTIONS OBJECTIVE FUNCTION ONE

Identification	Units		2680 Acres	
Number of Wells		Six	Six	Four
Total GPM		2400	4500	4000
Solution Number		IIIA	IIIB	IIIC
Net Returns	DOL.	81,280	133,204	106,665
Net Kilocalories	MILLION	4,850.08669	6,243.57675	5,911.62751
Irrigated Crops <u>A</u> /				
RWG2RCRC RWGSDC RWFS3HI	RCRC AC DC AC		.6 287.2 1,901.7	14.5 287.2 1,623.8
Dryland Crops ^A				
DLW	AC	1,598.8	490.5	754.5
Crop Products <u>B</u> /				
SGGONM GSNJ Wheat Grain Sorghum	AUM AUM BU CWT	861 338 57,523 28,978	799 874 57,289 53,093	814 746 57,344 47,348
Cropping System ^C /				
CT RT	AC AC	1,081.2	2,189.5	1,925.5
Total Irrigation				
Water Used	ACIN	18,151	31,159	28,060
Labor				
Operator Labor Hired Labor	HR. HR.	1,254 1,641	1,373 2,222	1,362 2,080
Annual Capital Used				
Operating Investment	DOL. DOL.	39,760 66,387	46,066 114,302	44,564 90,446
Energy Inputs	*			
Nitrogen Phosphate Herbicide Insecticide Diesel Oil Natural Gas	CWT CWT LB. LB. GALS. QTS. 1000 CUFT.	2,303 1,224 1,022 5,810 2,178 10,729.717	2,525 2,333 2,189 6,738 3,389 18,510.801	2,472 2,069 1,911 6,517 3,100 16,657.236
Machinery	DOL.	10,280	14,774	13,704

A/RWG2RCRC, Reduced tillage wheat grain two year rotation of conventional tillage year one, reduced tillage year two; RWGSDC, Reduced tillage wheat grain sorghum double crop; RWFS3HI, Reduced tillage wheat-fallow-sorghum three year rotation heavy irrigation; DLW, Dryland tillage wheat.

 $[\]underline{B}/\text{SGGONM},$ Small grain graze out November-March; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{\text{C}}/\text{For}$ irrigated acreage only, CT refers to conventional tillage and RT means reduced tillage.

solution requires 18,151 acre inches of irrigation water, 1,254 hours of operator and 1641 hours of hired labor. Capital requirements are \$39,760 for operating expense and \$66,387 for investment.

Inputs also soar to 230,290 pounds of nitrogen, 1,224 pounds of herbicide, 1,022 pounds of insecticide along with 5,810 gallons of diesel, 2,178 quarts of oil, 10,729,717 cubic feet of gas and \$10,280 of machinery depreciation and repairs. The net returns generated total \$81,280 while the net kilocalories of output are estimated at 4,850,086,690.

For farm solution IIIB which has, 4,500 GPM, the solution includes .6 acres of reduced tillage two-year wheat rotation of conventional tillage in year one and reduced tillage in year two (RWG2RCRC), 287.2 acres of reduced tillage wheat and grain sorghum double crop (RWGSDC), 1,901.7 acres of reduced tillage wheat-fallow-sorghum three-year rotation heavy irrigation and only 490.5 acres of dryland wheat. The acreage of reduced tillage production under irrigation is 2189.5 (Table XXII).

The quantity of the inputs required by solution IIIB is greater than for IIIA. The amount of irrigation water required is 31,159 acre inches. Labor requirements total 3,595 hours including 1,373 of operator labor and 2,222 hours of hired labor. Capital needs are made up of \$46,066 for operating expenses and \$114,302 in investment capital. The other input requirements increase as shown in Table XXII. Net returns reached a high of \$133,204 while net kilocalories of output reached 6,243,576,750.

The optimal solution values for IIIC again fall between the previously discussed solutions (IIIA & IIIB). Like the past situations,

the GPM for IIIC more closely approximates solution IIIB. The net returns for solution IIIC are \$106,665 and the net kilocalories of output are 5,911,627,510. These values are very close to the corresponding values for the IIIB solution. The cropping scheme again consists of all reduced tillage methods of production on the irrigated acreage (1,925.5 acres), made up of 14.5 acres of reduced tillage two-year wheat rotation of conventional tillage in year one and reduced tillage in year two (RWG2RCRC), 287.2 acres of reduced tillage wheat and grain sorghum double crop (RWGSBDC), and 1,623.8 acres of reduced tillage wheat-fallow-sorghum three year rotation heavy irrigation (RWFS3HI). The remaining 754.5 acres is in dryland wheat. The irrigation water used is only 3,099 acre inches less than IIIB but is 10,455 acre inches more than IIIA. The labor and capital required (1,362 hours of operator labor, 2,080 hours of hired) \$44,546 of operating capital and \$90,446 of investment capital are relatively close to the corresponding quantities required by solution IIIB. The quantity of each of the remaining inputs required by solution IIIC is much greater than for IIIA, but somewhat less than IIIB (Table XXII).

Sandy Loam Soils

This is the final set of representative farm organizations to be discussed under objective function one. The results follow much the same pattern as those of the other farm sizes with sandy loam soils. The quantities for solution IIIA and IIIC are very similar in most categories. As for the other two farm sizes, water situation B has high irrigation costs associated with the additional sprinkler systems. So solution IIIA includes only 400 acres of reduced tillage wheat and

soybean double crop (RSGSBDC) and 2,280 acres of dryland grain sorghum. The 400 acres of irrigated production utilize a reduced tillage method (Table XXIII). The net returns are \$35,917 and the net kilocalories of output are 5,893,763,760. Table XXIII lists the items mentioned above along with the remaining solutions to be discussed.

Solution IIIB includes only an additional 14.8 acres of irrigated production (414.8 acres of reduced tillage wheat and soybean double crop) even though an additional 2100 GPM of irrigation water is available. However, water is available only at high cost. Approximately the same is used in solution IIB (13,688 acre inches) as in IIA (13,296 acre inches). The remaining 2,265.2 acres are in dryland sorghum.

While operating capital requirements increase only to \$35,505, investment jumps to \$235,094, an additional \$50,266 because of the additional sprinkler systems.

As expected input requirements for solution IIIB are only slightly above the corresponding requirements for solution IIIA (Table XXIII). The net returns of \$20,890 are \$15,026 lower than for solution IIIA. However, the net kilocalories of output fall a relatively small amount. This seeming discrepancy occurs because the fixed costs associated with additional sprinkler systems greatly reduce net returns, but have relatively little effect on net kilocalories of output.

The final solution, IIIC, has somewhat higher returns than IIIA, but approximately the same net kilocalories of output (5,873,272,520). The increase in returns over IIIB results from the reduction in both variable and fixed irrigation cost as well as the addition of 40 acres of reduced tillage corn grain (RCG). This solution includes the same acreage of reduced tillage wheat and soybean double crop (RWGSBDC) as

TABLE XXIII

2680 ACRE SANDY LOAM FARM OPTIMAL SOLUTIONS OBJECTIVE FUNCTION ONE

Identification	Units	2680 Acres				
Number of Wells		Six	Six	Four		
Total GPM		2400	4500	4000		
Solution Number:		IIIA	IIIB	IIIC		
Net Returns	DOL.	35,917	20,891	37,297		
Net Kilocalories	MILLION	5,893.76376	5,832.42388	5,873.27252		
Irrigated CropsA/		, <u>t</u> t				
RCG AC				40.0		
RWGSBDC	AC	400.0	414.8	414.8		
Dryland Crops ^A						
DLGSS	SS AC		2,265.2	2,225.2		
Crop Products <u>B</u> /						
GSNJ			1,698	1,668		
Wheat	BU	20,000	20,741	20,741		
Grain Sorghum	CWT	47,880	47,569	46,728		
Soybeans Corn	BU BU	14,000	14 , 519	14,519		
Cropping System ^C /		•				
CT CT	AC					
RT	AC AC	400.0	414.8	454.8		
	·•		. :			
Total Irrigation						
Water Used	ACIN	13,320	13,688	14,649		
Labor	5					
Operator Labor	HR.	1,112	1,118	1,148		
Hired Labor	HR.	2,811	2,995	3 ,0 59		
Annual Capital Used						
Operating	DOL.	35,350	35,505	36,827		
Investment	DOL.	184,827	235,094	178,932		
Energy Inputs						
Nitrogen	CWT	1,620	1,630	1,690		
Phosphate	CWT	200	207	277		
Herbicide Insecticide	LB. LB.	1,000 2,280	1,037 2,265	1,097 2,265		
Diesel	GALS.	13,296	13,272	13,432		
0i1	QTS.	2,689	2,737	2,843		
Natural Gas	1000	11,220.000	11,635.555	12,448.973		
Machinery	CUFT. DOL.	15,036	15,387	16,218		

 $[\]underline{\mathcal{M}}_{RCG},$ Reduced tillage corn grain; RWGSBDC, Reduced tillage grain soybean double crop; DLGSS, Dryland tillage grain sorghum sandy soil.

 $[\]underline{B}/GSNJ$, Grain sorghum stubble graze November-January.

 $[\]underline{\text{C}/\text{For}}$ irrigated acreage only, CT refers to conventional tillage and RT means reduced tillage.

IIIB (414.8 acres), but somewhat less dryland grain sorghum (2,225.2). Reduced tillage acreage increases to 454.8 acres.

The solution requires 14,649 acre inches of irrigation water and 4,207 hours of labor. Operating capital increases slightly to \$36,827 while investment capital fell below both IIIB and IIIA to \$178,932. This is due to the reduction in both number of wells and sprinkler systems in the case of IIIB, and the number of wells in the case of IIIA.

The inputs used increase by a small amount to 169,040 pounds of nitrogen, 27,740 pounds of phosphate, 1,097 pounds of herbicide, 2,265 pounds of insecticide, 13,432 gallons of diesel, 2,843 quarts of oil, while irrigation requires 12,448,973 cubic feet of natural gas, and the solution requires \$16,218 of machinery depreciation and repairs.

Objective Function Four

Maximimizing OBJ4 maximizes net kilocalories of output for the farm. This is the difference between the calories of fossil fuel energy inputs and the digestable energy in the crop(s) harvested. Maximization of output results in farm organizations including those crops and methods of production requiring relatively little input energy per kilocalorie of output. In many cases the organizations selected using this objective function are very unprofitable. However, the changes in methods of production indicate the direction of optimum adjustments as fossil fuel energy prices increase.

560 Cropland Acres

Clay Loam Soil

Table XXIV presents the results for the 560 acre farm size and the three water situations. The first solution includes 88.8 acres of conventional tillage grain sorghum under moderate irrigation (CSMI) along with 133.3 acres of reduced tillage silage and rye grazing double crop (RSRSCL). The remaining 337.9 acres of cropland is planted in dryland grain sorghum. The production of irrigated crops involves 88.8 acres of conventional tillage and 133.3 acres of reduced tillage methods.

A total of 6,307 acre inches of irrigation water and 1,192 hours of labor is utilized. Capital requirements are \$6,778 for operating expenses and \$26,882 for investment.

The inputs required include 46,190 pounds of nitrogen, 166 pounds of herbicide, 222 pounds of insecticide, 3,756 gallons of diesel and 880 quarts of oil. Natural gas required for irrigation is 4,451,660 cubic feet while \$7,297 of machinery depreciation and repairs is needed. Net kilocalories of output total 1,930,907,590, while net returns are a minus \$27,030.

As expected solution IIA includes an increased irrigated acreage (166.7 acres) of conventional tillage sorghum under moderate irrigation (CSMI) plus 250 acres of reduced tillage silage and rye grazing double crop (RSRSCL), resulting in a smaller acreage of dryland sorghum (143.3 acres). The larger irrigated acreage requires more irrigation water (11,833 acre inches) and more labor (1,206 hours of operator labor and 492 hours of hired labor). Operating capital increases to \$8,615 and investment capital increases to \$44,689. The quantities of

TABLE XXIV

560 ACRE CLAY LOAM FARM OPTIMAL SOLUTIONS OBJECTIVE FUNCTION FOUR

Units		560 Acres		
	Two	Two	0ne	
	800	1500	1000	
	IA	IB	IC	
DOL.	-27,030	-43,209	-31,977	
MILLION	1,930.90759	2,731.55734	2,159.78712	
AC AC	88.8 133.3	166.7 250.0	111.1 166.6	
AC	337.9	143.3	282.3	
AUM	546	1,025	683	
			323	
			3,333 7,771	
CWI	7,440	0,3//	/,//!	
•				
AC	88.3	166.7	111.1	
AC	133.3	250.0	166.6	
ACIN	6,307	11,833	7,886	
HR.	1,003	1,206	1,084	
HR.	189	492	238	
DOL.	6,778	8,615	7,303	
DOL.	26,883	44,689	29,904	
	•	•		
CWT	462	866	578	
CWT				
LB.	166		208	
			278	
			3,940	
1000	4,451.660	8,352.083	1,025 5,566.663	
CUFT. DOL.	7,297	12,694	8,840	
	MILLION AC AC AC AUM AUM TON CWT AC AC ACIN HR. HR. DOL. CWT CWT LB. LB. GALS. QTS. 11000 CUFT.	B00 IA DOL27,030 MILLION 1,930.90759 AC 88.8 AC 133.3 AC 337.9 AUM 546 AUM 342 TON 2,665 CWT 7,448 AC 88.3 AC 133.3 ACIN 6,307 HR. 1,003 HR. 189 DOL. 6,778 DOL. 26,883 CWT 462 CWT 189 CWT 462	Two Two 800 1500 IA IB DOL27,030 -43,209 MILLION 1,930.90759 2,731.55734 AC 88.8 166.7 AC 133.3 250.0 AC 337.9 143.3 AUM 546 1,025 AUM 342 274 TON 2,665 5,000 CWT 7,448 8,577 AC 88.3 166.7 AC 133.3 250.0 ACIN 6,307 11,833 HR. 1,003 1,206 HR. 189 492 DOL. 6,778 8,615 DOL. 26,883 44,689 CWT 462 866 CWT LB. 166 313 LB. 222 417 GALS. 3,756 4,399 QTS. 1000 4,451.660 8,352.083 .	

 $^{^{\}underline{A}\prime}$ CSMI, Conventional tillage sorghum moderate irrigation; RSRSCL, Reduced tillage silage and rye surface irrigation, DLGSC, Dryland tillage grain sorghum clay soil.

 $[\]underline{^{B\!/}} \mathsf{SGG00M}\text{, Small}$ grain graze out October-May; GSNJ, Grain sorghum graze November-January.

 $[\]underline{\text{C}}/\text{For}$ irrigated acreage only, CT refers to conventional tillage and RT means reduced tillage.

fertilizer, pesticides, petroleum products and machinery depreciation and repairs are greater for solution IB than IA (Table XXIV). Again, net returns are negative (-\$43,209), while net kilocalories of output increase to 2,731,557,340.

As in previously discussed solutions, the levels of crop production inputs and value of the objective function for IC falls between IA and IB. The solution for IC includes 166.6 acres of reduced tillage silage and rye grazing double crop (RSRSCL), 111.1 acres of conventional tillage sorghum under moderate irrigation (CSMI) and 282.3 acres of dryland grain sorghum. The input requirements are presented in Table XXIV. This organization generates 2,159,787,120 kilocalories of output and a minus \$31,977 in net returns.

Sandy Loam Soil

Solution IA has only one irrigated crop, 148.1 acres of reduced tillage silage and rye grazing double crop which requires a total of 5,033 acre inches of irrigated water (Table XXV). The remaining 411.9 acres are planted in dryland sorghum.

The organization entails 921 hours of operator labor and 38 hours of hired labor. There are \$9,279 of operating capital along with \$40,627 of investment capital required.

Input requirements are 62,050 pounds of nitrogen, 7,400 pounds of phosphate, 222 pounds of herbicide 560 pounds of insecticide, 2,971 gallons of diesel in addition to 791 quarts of oil. There are 4,164,062 cubic feet of gas required for irrigation along with \$4,431 in machinery depreciation and repairs. Net returns equal a minus \$39,078 while net kilocalories of output are 2,064,069,510 for solution IA.

TABLE XXV

560 ACRE SANDY LOAM FARM OPTIMAL SOLUTIONS OBJECTIVE FUNCTION FOUR

Number of Wells			560 Acres	
Mulliper of Meris		Two	Two	0ne
Total GPM		800	1500	1000
Solution Number:		IA	IB	IC
Net Returns	turns DOL.		-62,136	-44,111
Net Kilocalories	MILLION	2,064.06951	2,490.30119	2,185.91518
Irrigated Crops ^A /				
RSRCSL	AC	148.1	277.8	185.1
Dryland Crops <mark>A</mark> /		. 1		
DLGSS	ACC	411.9	282.2	375.9
Crop Products B/				
SGG00M	AUM	607	1,139	759
GSNJ Corn Silage	AUM Ton	309 2,961	212 5,556	281 3,703
Grain Sorghum	CWT	8,651	5,927	7,872
Cropping System ^C /		*		
CT	AC			
RT	AC	148.1	277.8	185.1
Total Irrigation				
Water Us ed	ACIN	5,033	9,444	6,294
Labor				
Operator Labor	HR.	921	1,111	987
Hired Labor	HR.	38	101	43
Annual Capital Used				
Operating .	DOL.	9,279	11,707	9,973
Investment	DOL.	40,627	72,647	43,086
Energy Inputs				
Nitrogen	CWT	621 74	919	706
Phosphate			139	93
Herbicide Insecticide	LB. LB.	222 560	416 560	278 560
Diesel	GALS.	2,971	3,023	2,986
0i1	QTS.	791	1,230	917
Natural Gas	1000	4,164.062	7,812.500	5,207.031
Machinery	CUFT. DOL.	4,431	7,298	5,251

 $[\]underline{A'}_{\rm RSRCSL}$, Reduced tillage silage and rye circular sprinkler irrigation; DLGSS, Dryland tillage grain sorghum sandy soil.

 $[\]underline{\rm B}/{\rm SGG00M},$ Small grain graze out October-May; GSNJ, Grain sorghum stubble graze November-January,

 $[\]underline{\text{C}'}\text{For irrigated}$ acreage only, CT refers to conventional tillage and RT means reduced tillage.

Solution IB includes more irrigated but less dryland production. Reduced tillage silage and rye graze double crop increases to 277.8 acres which requires 9,444 acre inches of irrigation water. The remaining 282.2 acres are in dryland grain sorghum. The requirement for all inputs except insecticide are greater than for IA. The net returns are a minus \$62,136, while the net kilocalories of output are 2,490,301,190.

The pattern that is seen in the objective function four organizations follows that of the clay loam results with the results for water situation C between A and B. The reason for the change in pattern set in sandy loam objective function one is that the fixed and variable cost of irrigation is not a limiting factor here. Net returns are a negative \$44,110 while net kilocalories of output total 2,185,915,181. These objective function values are generated by 185.1 acres of reduced tillage silage and rye grazing double crop (RSRCSL), and 375.9 acres of dryland sorghum. A required 6,294 acre inches of water are needed for the 185.1 acres of irrigated reduced tilled production. The solution entails 987 hours of operator labor and 43 hours of hired labor. A total of \$53,059 of capital is needed of which \$9,973 is operating and \$43,086 is investment. The quantities of fertilizer, pesticides, petroleum products and machinery depreciation are shown in Table XXV.

1440 Cropland Acres

Clay Loam Soil

The same combination of crops is included in the 1440 acre farm solution set for IIA. It includes 133.3 acres of conventional sorghum

moderate irrigation and 200 acres of reduced tillage silage and rye grazing double crop (Table XXVI). A total of 9,466 acre inches of irrigation water are utilized on the 333.3 acres of irrigated land. The remaining 1,106.7 acres are planted in dryland grain sorghum. The net returns decrease to a minus \$56,109 while net kilocalories of output are 3,986,972,810.

Solution IIB requires a considerable increase in irrigated acreage (625 acres) which produces conventional tillage grain sorghum moderately irrigated (250 acres) and 375 acres of reduced tillage silage and rye grazing double crops.

The three crops use 17,750 acre inches of irrigation water requiring 12,528,125 cubic feet of natural gas. The remaining 815 acres of cropland is planted in dryland grain sorghum.

All remaining categories (labor, capital and fossil fuel inputs) increase in solution IIB (Table XXVI). The net returns are a minus \$80,742 while net kilocalories of output are 5,187,090,200.

Again, solution IIC falls between IIA and IIB with a minus \$73,390 in net returns and 4,901,633,710 kilocalories of output. The solution includes conventional tillage sorghum moderate irrigation (222.2 acres) and reduced tillage silage and rye grazing double crop (333.4 acres). The total irrigated acres (555.6 acres) require 15,779 acre inches of irrigation water which uses 11,137,503 cubic feet of natural gas. The remaining items (labor, capital, and fossil fuel inputs) fall between IIA and IIB (Table XXVI).

Sandy Loam Soil

Solution IIA incorporates a small percentage of irrigated land,

TABLE XXVI

1440 ACRE CLAY LOAM FARM OPTIMAL SOLUTIONS OBJECTIVE FUNCTION FOUR

Identification	Units		1440 Acres		
Number of Wells		Three	Three	Two	
Total GPM		1200	2250	2000	
Solution:		IIA	IIB	IIC	
Net Returns	DOL.	-56,109	-80,742	-73,390	
Net Kilocalories	MILLION	3,986.97281	5,187.09020	4,901.63371	
Irrigated CropsA/					
CSMI RSRSCL	AC AC	133.3 200.0	250.0 375.0	222.2 333.4	
Dryland CropsA/	•				
DSGSC	AC	1,106.7	815.0	884.4	
Crop Products <u>B</u> /					
SGGOOM GSNJ Corn Silage Grain Sorghum	AUM AUM TON CWT	820 963 4,000 17,773	1,538 861 7,500 19,465	1,367 886 6,668 19,063	
Cropping System ^C /					
CT RT	AC AC	133.3 200.0	250.0 375.0	222.3 333.4	
Total Irrigation					
Water Used	ACIN	9,466	17,750	15,779	
Labor				•	
Operator Labor Hired Labor	HR. HR.	1,097 1,430	1,269 1,932	1,244 1,798	
Annual Capital Used					
Operating Investment	DOL. DOL.	15,185 51,810	17,938 78,518	17,284 65,936	
Energy Inputs			•		
Nitrogen Phosphate	CWT CWT	693 	1,300	1,156	
Herbicide Insecticide Diesel Oil	LB. LB. GALS. QTS.	250 333 8,876 1,645	469 625 9,839 2,404	417 556 9,610 2,223	
Natural Gas	1000 CUFT.	6,681.666	12,528.125	11,137.503	
Machinery	DOL.	12,169	20,259	18,335	

 $^{^{\}underline{A'}}$ CSMI, Conventional tillage sorghum moderate irrigation; RSRSCL, Reduced tillage silage and rye surface irrigation, DLGSC, Dryland tillage grain sorghum clay soil.

 $[\]underline{{\sf B}\prime}{\sf SGG00M},$ Small grain graze out October-May; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{\text{C}'}\text{For irrigated acreage only, CT refers to conventional tillage and RT means reduced tillage.}$

222.2 acres of reduced tillage silage and rye grazing double crop with a large amount of dryland grain sorghum, 1,217.8 acres (Table XXVII).

The reduced tillage scheme requires 7,555 acre inches of irrigation water which requires 6,250,000 cubic feet of natural gas. Labor totals 2,160 hours (1,101 to operator and 1,059 to hired labor) while capital requires \$20,893 for operating and \$95,527 for investment.

Input requirements include 123,110 pounds of nitrogen, 11,110 pounds of phosphate 333 pounds of herbicide, 1,440 acres of insecticide, 7,577 gallons of diesel, 1,499 quarts of oil and \$7,892 for machinery depreciation and repairs. The net returns are a minus \$86,696 while the net kilocalories of output are estimated at 4,786,845.810.

Solution set IIB increases irrigated acreage to 416.7 acres which is reduced tillage silage and rye graze double crop (RSRCSL) but decreases dryland grain sorghum (1023.3 acres). A large increase in acre inches of irrigation water is indicated (14,166 acre inches) along with an increase in all other categories (labor, capital and fossil fuel inputs). The net returns are a minus \$115,019 while the net kilocalories of output are 5,425,736,980.

The same irrigated crops and other categories are used as in IIA and IIB (Table XXXVII). The net kilocalories of output generated are 5,273,772,150 while net returns are a minus \$101,437.

2680 Cropland Acres

Clay Loam Soil

These results show a large increase in irrigated acreage which is expected with the additional irrigation water available. Solution IIA

TABLE XXVII

1440 ACRE SANDY LOAM FARM OPTIMAL SOLUTIONS
OBJECTIVE FUNCTION FOUR

Identification	Units		1440 Acres		
Number of Wells		Three	Three	Two	
Total GPM		1200	2250	2000	
Solution Number		IIA	IIB	IIC	
Net Returns	DOL.	-86,696	-115,019	-101,437	
Net Kilocalories	MILLION	4,786.84581	5,425.73698	5,273.77215	
Irrigated CropsA/					
RSRCSL	AC	222.2	416.7	370.4	
Dryland CropsA/					
DLGSS	AC	1,217.8	1,023.3	1,069.6	
Crop Products <u>B</u> /					
SGG00M	AUM	911	1,708	1,519	
GSNJ	AUM	913	768	802	
Corn Silage Grain Sorghum	TON CWT	4,444 25,573	8,333 21,490	7,408 22,461	
Cropping System ^C					
CT RT	AC AC	222.2	 416.7	370.4	
Total Irrigation					
Water Used	ACIN	7,555	14,166	12,594	
Labor					
Operator Labor	HR.	1,101	1,275	1,248	
Hired Labor	HR.	1,059	1,267	1,203	
Annual Capital Used					
Operating Investment	DOL. DOL.	20,893 95,527	24,533 120,683	23,667 92,419	
Energy Inputs			•		
Nitrogen	CWT	1,231	1,678	1,572	
Phosphate Herbicide	CWT LB.	111 333	208 625	185 556	
Insecticide	LB.	1,440	1,440	1,440	
Diesel	GALS.	7,577	7,655	7,636	
Oil Natural Gas	QTS. 1000	1,499 6,250.000	2,157 11,718.750	2,001 10,417.968	
	CUFT.				
Machinery	DOL.	7,892	12,189	, 11,167	

 $[\]underline{A}$ RSRCSL, Reduced tillage silage and rye circular sprinkler irrigation; DLGSS, Dryland tillage grain sorghum sandy soil.

 $[\]underline{B}/\text{SGGOOM},$ Small grain graze out October-May; GSNJ, Grain sorghum stubble graze November- January.

 $[\]underline{^{\rm C}/_{\rm For}}$ irrigated acreage only, CT refers to conventional tillage and RT means reduced tillage.

has a net return of a minus \$110,578 while the kilocalories of output are 7,610,694,203 (Table XXVIII).

The crops include larger acreages of the same schemes included in previously discussed solutions. The organization includes 266.7 acres of conventional sorghum moderate irrigation and 400 acres reduced tillage silage and rye grazing double crop while the remaining acreage is in dryland grain sorghum (2,013.3 acres). A total of 13,363,333 cubic feet of natural gas is used to pump 18,933 acre inches of irrigation water.

Labor requirements specify 1,151 hours of operator labor and 3,661 hours of hired labor, operating capital requires \$28,698 while investment capital requires \$99,793. Input requirements are nitrogen 138,670 pounds, herbicides 500 pounds, insecticides 667 pounds, diesel 16,672 gallons, oil 3,182 quarts and \$23,932 for machinery depreciation and repairs.

Solution IIIB also shows a large increase in all categories such as conventional tillage sorghum moderate irrigation (500 acres) and reduced tillage silage and rye graze double crop (750 acres). The only crop with a smaller acreage than the solution for IIA is dryland grain sorghum (1,430 acres), because of the increase in the two irrigated crops.

As expected input requirements (fossil fuel products) along with labor and capital for solution IIIB are larger than the corresponding amounts for IIIA (Table XXVIII). The net returns are a minus \$160,708 while the net kilocalories of output are 10,010,929,010.

The IIIC solution again falls between IIIA and IIIB with 1,111 acres of the same irrigated crops as IIIA and IIIB. Solution IIIC used

TABLE XXVIII

2680 ACRE CLAY LOAM FARM OPTIMAL SOLUTIONS OBJECTIVE FUNCTION FOUR

Identification	Units		2680 Acres	
Number of Wells		Six	Six	Four
Total GPM		2400	4500	4000
Solution Number		IIIA	IIIB	IIIC
Net Returns	DOL.	-110,578	-160,708	-147,841
Net Kilocalories	MILLION	7,610.69423	10,010.92901	9,439.15880
Irrigated CropsA/				ingli Anglina
CSMI RSRSCL	AC AC	266.7 400.0	500.0 750.0	444.4 666.6
Dryland CropsA/				
DLGSC	AC	2,013.3	1,430.0	1,568.9
Crop Products ^B /				
SG00M	AUM	1,640	3,075	2,733
GSNJ	AUM	1,777	1,572	1,621
Corn Silage	TON	8,000	15,000	13,333
Grain Sorghum	CWT	33,347	36,730	35,924
Cropping System ^{C/}				
CT RT	AC AC	266.7 400.0	500.0 750.0	444.4 666.6
Total Irrigation				
Water Used	ACIN	18,933	35,500	31,553
Labor				
Operator Labor Hired Labor	HR. HR.	1,151 3,661	1,210 4,953	1,206 4,634
	nr.	3,001	4,555	4,034
Annual Capital Used				
Operating Investment	DOL.	28,698	34,205	32,893
investment	DOL.	99,793	153,307	128,042
Energy Inputs		•		
Nitrogen	CWT	1,387	2,600	2,311
Phosphate	CWT	 	020	
Herbicide Insecticide	LB. LB.	500 667	938 1 , 250	884 1,111
Diesel	GALS	16,672	18,597	18,138
0i1	QTS.	3,182	4,700	4,338
Natural Gas	1000 CUFT.	13,363.333	25,056.250	22,270.830
Machinery	DOL.	23,932	40,113	36,258

 $[\]frac{A}{C}$ CSMI, Conventional tillage sorghum moderate irrigation; RSRSCL, Reduced tillage silage and rye surface irrigation; DLGSC, Dryland tillage grain sorghum clay soil.

 $[\]underline{\mathsf{B}}'\mathsf{SGGOOM},\ \mathsf{Small}$ grain graze out October-May; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{\text{C}/\text{For}}$ irrigated acreage only, CT refers to conventional tillage and RT means reduced tillage.

31,553 acre inches of irrigation water which requires 22,270,830 cubic feet of natural gas. All other categories fall between IIIA and IIIB as do the above for solution IIIC. Net returns are a minus \$147,841 while net kilocalories of output are 9,439,158,800.

Sandy Loam Soil

The three solutions (IIIA, IIIB, IIIC, Table XXIX) for the 2,680 acre farm all use the same irrigated and dryland crops, reduced tillage silage and rye grazing double crop (RSRCSL) and dryland grain sorghum. As in most cases discussed in this chapter, the solution for resource situation IIIC falls between IIIA and IIIB in all categories. The net returns for IIIA are a minus \$169,651, while IIIB is a minus \$227,186 and IIIC is a minus \$199,847. Net kilocalories of output are 9,010,263,230 for IIIA, 10,288,045,560 for IIIB and 9,983,659,550 for IIIC. All numerical results for the three solutions are presented in Table XXIX.

Comparison of Solutions for Objective

Functions One and Four

Clay Loam Soils

560 Cropland Acres

The numerals and letters used to refer to the representative farm organizations are supplemented with the superscripts 1 and 4 in this section to refer to the results for OBJ1 and OBJ4, respectively. For instance, solution IA^{1} refers to the solution for the 560 acre farm with water situation A when net returns are maximized (OBJ1), while IA^{4}

TABLE XXIX

2680 ACRE SANDY LOAM FARM OPTIMAL SOLUTIONS OBJECTIVE FUNCTION FOUR

Identification	Units		2680 Acres	
Number of Wells		Six	Six	Four
Total GPM		2400	4500	4000
Solution Number:		IIIA	IIIB	IIIC
Net Returns	DOL.	-169,651	-227,186	-199,847
Net Kilocalories	MILLION	9,010.26323	10,288.04556	9,983.65955
Irrigated Crops ^{A/}				
RSRCSL	AC	444.4	833.3	740.7
Dryland Crops ^A /				
DLGSS	AC	2,235.6	1,846.7	1,939.3
Crop Products <u>B</u> /				
SG00M	AUM	1,822	3,417	3,037
GSNJ Corn Silage	AUM TON	1,676 8,889	1,385 16,667	1,454 14,813
Grain Sorghum	CWT	46,947	38,780	40,725
Cropping System ^{C/}				
CT RT	AC AC	 444.4	833.3	740.7
Total Irrigation				
Water Used	ACIN	15,111	28,333	25,183
Labor				
Operator Labor	HR.	1,159	1,210	1,210
Hired Labor	HR.	2,924	3,637	3,455
Annual Capital Used				
Operating	DOL.	39,462	46,742	45,007
Investment	DOL.	187,150	237,462	180,934
Energy Inputs				
Nitrogen	CWT	2,362	3,257	3,044
Phosphate Herbicide	CWT LB.	222 667	417 1,250	370 1,111
Insecticide	LB.	2,680	2,680	2,680
Diesel	GALS.	14,114	14,269	14,232
0i1	QTS.	2,896	4,210	3,897
Natural Gas	1000 CUFT.	12,500.000	23,437.500	20,832.031
Machinery	DOL.	15,370	23,964	21,917

 $[\]Delta$ /RSRCSL, Reduced tillage silage and rye circular sprinkler irrigation; DLGSS, Dryland tillage grain sorghum sandy soil.

 $[\]underline{B}/\mathrm{SGGOOM}$, Small grain graze out October-May; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{\text{C}}/\text{For}$ irrigated acreage only, CT refers to conventional tillage and RT means reduced tillage.

denotes the organization for the same land and water situation when net kilocalories of output are maximized (OBJ4). The information discussed in this section is presented in detail in Table XXX.

Solution IA^1 produces a \$23,785 net return with an energy output of 1,200,455,940 net kilocalories as compared to a minus \$27,030 in returns for IA^4 and 1,930,907,590. Thus shifting from IA^1 to IA^4 reduces net returns \$50,814 and increases net kilocalories of output 710,451,650. The cropping schemes are quite different with IA^1 using entirely reduced tillage methods and IA^4 using a combination of reduced and conventional tillage.

A comparison of the crop products in Table XXX indicates a combination of 12,543 bushels of wheat, 9,535 hundred weights of sorghum, 170 AUM's of small grain graze-out November-March and 135 AUM's of sorghum stubble are produced in IA^1 . IA^4 produces 2,665 tons of corn silage, 7,448 hundred weights of sorghum, 546 AUM's of small grain graze-out October-May and 342 AUM's of sorghum stubble. The crops produced in IA^1 and all the objective function one solutions produce grain type crops, while the crops produced in IA^4 and all the objective four solutions produce forage type crops. This shift demonstrates the difference in the kilocalories of energy produced by grain and forage crops. This point is also demonstrated by the efficiencies shown in Chapter III (Table XVI).

Labor requirements differ greatly with IA^1 using a total of 751 hours and IA^4 using 1,192 hours. This occurs because less reduced tillage is used by the IA^4 solution. Also a total of 6,307 acre inches of irrigation water is applied on IA^4 as compared to 5,773 acre inches in IA^1 , indicating that the irrigated crops require more water even though

TABLE XXX

COMPARISON OF OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTIONS
ONE AND FOUR FOR THE 560 ACRE CLAY LOAM FARMS

Farm Size	560 Acres								
Solution Number		IAI	IB1	IC1	IA ⁴	$1B^4$	IC4		
Number of Wells		Two	Two	0ne	Two	Two	0ne		
Total GPM		800	1500	1000	800	1500	1000		
Identification	Units								
Net Returns	DOL	23,785	30,688	26,689	-27,030	-43,209	-31,977		
Net Kilocalories	MILLION	1,220.45594	925. 59538	1,353.33517	1,930.90759	2,731.55734	2,159,78712		
Irrigated Crops <u>A</u> /									
CSB	AC		112.3						
RWG2RCRC	AC	9.2	29.0	3.6					
RUGSDC	AC	71.8	71.7	71.7					
RWFS3HI	AC	294.6	346.8	405.8	- <u>-</u> -				
CSMI	AC	·			88.8	166.7	111.1		
RSRSCL	AC				133.3	250.0	166.6		
Dryland CropsA/									
DLW	AC	184.4		78.7					
DLGSC	AC				337.9	143.3	282.3		
Crop Products#/									
Wheat	BU	12,543	11,578	12,521					
Soybeans	BU	12,545	5,056	12,521					
Grain Sorghum	CMI	9,535	10,616	11,835	7 //0	0 533			
Corn Silage	TON	9,000	10,616	11,035	7,448	8,577	7,771		
SGGONM	AUM	170	143	165	2,665	5,000	3,333		
SGGOOM	AUM								
GSNI	AUM	135	159	136	<u>348</u>	1,025	683		
Cropping System C/						110			
Con Tillage	AC		112.3		88.8	166.7	111.1		
Red Tillage	AC	375.6	447.7	481.2	133.3	250.0	166.6		
Labor	AU				133.3	250.0	100.0		
	HR	577	903	638	1,003	1,206	1.084		
Operator Labor		174	231	180	189	492	238		
Hired Labor Irrigation	HR	1/4	231	100	100	492	238		
Total Water Used	ACIN	5,773	9,433	7,014	6,307	11,833	7,886		
Inputs									
•		531	539	552	4.60	066	578		
Nitrogen	CWT		J39		462	866	370		
Phosphate	CHT	412	596	517		313	208		
Herbicide	LB	336		478	166		208		
Insecticide	LB		419		. 222	417			
Diesel	GALS	1,398	2,306	1,486	3,756	4,399	3,940		
011	OTS	645	1,072	761	880	1,387	1,025		
Natural Gas	1000	3,421.632	6,276.205	4,163.614	4,451.660	8,352.083	5,566.663		
Hattiai Gas	CUFT								

A CSB, Conventional tillage soybeans; RWG2RCRC, Reduced tillage wheat grain two year rotation of conventional tillage year one and reduced tillage year two; RWGSDC, Reduced wheat grain sorghum double crop; RWFS3HI, Reduced tillage wheat-fallow-sorghum three year rotation heavy irrigation; CSMI, Conventional tillage grain sorghum moderate irrigation; RSRSCL, Reduced tillage silage-rye double crop; DLW, Dryland tillage wheat; DLGSC, Dryland tillage grain sorghum clay soil.

B/SGGONM, Small grain graze out November-March; SGGOOM, Small grain graze out October-May; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{^{C}}/_{ ext{For irrigated acreage only, Con refers to conventional and Red means reduced tillage.}}$

less land is irrigated.

Solution IA¹ requires more units of each input except diesel, oil, machinery and natural gas. This is understandable since more conventional and dryland acreage is planted in IA⁴ and more inches of irrigation water are pumped.

The comparison for solution IB is quite different. The net returns react in much the fashion expected in that ${\rm IB}^1$ increases to \$30,668 and ${\rm IB}^4$ decreases to a minus \$43,209. The interesting result is in the kilocalories category with ${\rm IB}^1$ falling to 925,595,380 while its comparison increases to 2,731,557,340 kilocalories.

As expected, all irrigated crops increase in acreage slightly while dryland crops decreased in both solutions. However, organization set ${\rm IB}^1$ includes no dryland crops while ${\rm IB}^4$ includes 143.3 acres of dryland sorghum. The large difference is net kilocalories of output is due to the relative net energy output of the soybeans included in ${\rm IB}^1$ but excluded from ${\rm IB}^4$.

The crop products for IB¹ are 11,578 bushels of wheat 10,616 hundred weights of sorghum 5,056 bushels of soybeans, 143 AUM's of graze-out November-March and 159 AUM's of sorghum stubble. Compared to IB⁴ which produces 5,000 tons of corn silage, 8,577 hundred weights of sorghum 1,025 AUM's of graze-out October-May and 274 AUM's of sorghum stubble.

Solution ${\rm IB}^4$ requires 564 hours more labor. Of particular interest is that ${\rm IB}^4$ requires an additional 2,400 acre inches of irrigation water, in spite of the 143.3 acres of dryland production.

The large quantity of additional nitrogen (32,750 pounds) required by ${\rm IB}^4$ is due to the reduction in soybean acreage. The fossil fuel

inputs of diesel, oil, machinery and natural gas are required in larger amounts by ${\rm IB}^4$ for the additional acreage of conventional tillage and the additional irrigation requirements.

The final comparison in the 560 acre clay loam soils again falls between the previous two. In this comparison it is found that ${\rm IC}^1$ returns \$26,689 while ${\rm IC}^4$ returns fall to a minus \$31,977. The net kilocalories are 1,353,335,170 for ${\rm IC}^1$ and 2,159,787,120 kilocalories for ${\rm IC}^4$ (Table XXX). The combination of crops produced is similar to the IA solutions for the same objective function except that more acreage is irrigated because more water is available.

The crop products for IC¹ are 12,521 bushels of wheat, 11,835 hundred weights of sorghum, 165 AUM's of graze-out November-March and 186 AUM's of sorghum stubble. Solution IC⁴ produces 3,333 tons of corn silage, 7,771 hundred weights of sorghum, 683 AUM's of graze-out and 323 AUM's of sorghum stubble.

1440 Cropland Acres

The same cropping schemes are used in the 1440 acre farms as were used in the 560 acre farms (Table XXXI). Solution IIA¹ produces 30,411 bushels, 14,489 hundred weights of sorghum, 465 AUM's of graze-out November-March and 169 AUM's of sorghum stubble. This compares to 17,773 hundred weights of sorghum, 820 AUM's of graze-out October-May and 963 AUM's of sorghum stubble for solution IIA⁴.

The proportion of dryland to irrigated land finds IIA⁴ with a higher percentage of dryland than IIA¹ but again IIA⁴ uses 9,466 acre inches compared to 9,075 acre inches of irrigation water for IIA¹. Labor is also used more extensively by IIA⁴ in addition to diesel, oil,

TABLE XXXI

COMPARISON OF OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTIONS ONE AND FOUR FOR THE 1440 ACRE CLAY LOAM FARMS

Farm Size			1440 /	Acres		
Solution Number	TIA ¹ Three	IIB1	IIC1	IIA4	IIB4	IIC4
Number of Wells	Three		Two	Three	Three	
Total GPM	1200	Three 2250	2000	1200	2250	Two 2000
Identification	Units	•				
Net Returns	DOL 42,605	59,019	55,630	-56,109	-80,742	-73,390
Net Kilocalories	MILLION 2,538.17725	3,234.92227	3,069.19649	3,986.97281	5,187.09020	4,901.63371
Irrigated Crops ^A						
RWG2RCRC	AC 29.5	.3	7.1			
RWGSDC	AC 143.6	143.6	143.6			-
RWFS3HI	AC 376.5	950.9	812.1			
CSMI	AC			133.3	250.0	222.3
RSRCSL	AC			200.0	375.0	333.4
					373.0	333.4
Dryland CropsA/	· ·			/		
DLW	AC 899.4	345.2	477.0	·		
DLGSC	AC			1,106.7	815.0	884.4
Crop Products B/			***************************************	·		
Top Floudets	·					
Wheat	BU 30,411	30,295	30,322			
Grain Sorghum	CWT 14,489	26,546	23,679	17,773	19,465	19,063
Corn Silage	TON 4,000	7,500	6,668	·		
SGGONM	AUM 465	434	442			
SCGOOM	AUM			820	1,538	1,367
GSNJ	AUM 169	437	373	963	861	886
Cropping System ^C						
Con Tillage	AC			133.3	250.0	222.3
Red Tillage	AC 540.6	1,094,8	962.9	200.0	375.0	333.4
Labor	AU					33314
Operator Labor	HR 976	1,186	1,138	1,097	1,269	1,244
Hired Labor	HR 504	654	616	1,430	1,932	1,798
Irrigation				1,430	1,732	1,730
Total Water Used	ACIN 9,075	15,579	14,032	9,466	17,750	15,779
Inputs						
W.******	CWT 1,211	1,322	1,296	693	1,300	1,156
Nitrogen			-,			
Phosphate	CWT 612	1,167	1.035	250	469	417
Herbicide	LD	1,094	956	.333	625	556
Insecticide	777	3,499	3,389	8.876	9,839	9,610
Diesel	1721113	1,707	1,563	1,645	2,404	
011	010	9,255.400	8,330.007	6,681.666		2,223
Natural Gas	1000 5,364.858 CUFT	2,433.400	0,330.00/	0,001.000	12,528.125	11,137.503
Machinery	DOL 5,244	7,491	6,957	12,169	20,259	18,335
raciitiiei y			2,22,	149107	20,237	10,333

A/RWG2RCRC, Reduced tillage wheat grain two year rotation of conventional tillage year one and reduced tillage year two; RWG5DC, Reduced wheat grain sorghum double crop; RWFSHI, Peduced tillage wheat-fallow-sorghum three year rotation heavy irrigation; CSMI, Conventional tillage grain sorghum moderate irrigation; RSRSCL, Reduced tillage silage-rye surface irrigation; DLW, Dryland tillage wheat; DLGSC, Dryland tillage grain sorghum clay soil.

B/SGGONM, Small grain graze out November-March; SGGOOM, Small grain graze out October-May, GSNJ, grain sorghum stubble graze November-January.

 $[\]underline{\text{C}'}_{\text{For irrigated acreage only, Con refers to conventional and Red means reduced tillage.}}$

natural gas, and machinery.

The net returns for IIA^1 are \$42,605 and a minus \$56,109 for IIA^4 . Net kilocalories of output are 2,538,177,250 for IIA^1 and 3,986,972,810 for IIA^4 .

In comparing solution IIB¹ and IIB⁴ (Table XXXI) the net returns for IIB¹ are \$59,019 while IIB⁴ net returns are a minus \$80,742. Net kilocalories of output are 3,234,922,270 for IIB¹ and 5,187,090,202 for IIB⁴. The products to generate these returns are 30,295 bushels of wheat, 26,546 hundred weights of sorghum 434 AUM's of graze-out November-March and 437 AUM's of sorghum stubble for IIB¹. Solution IIB⁴ produces 7,500 tons of corn silage, 19,465 hundred weights of sorghum, 1,538 AUM's of graze-out November-March, and 861 AUM's of sorghum stubble.

The categories of dryland acreage, labor and acre inches of irrigation water are used in larger amounts by ${\rm IIB}^4$. In addition to these categories ${\rm IIB}^4$ uses more diesel, oil, natural gas and machinery.

In comparing IIC¹ and IIC⁴ it is evident from Table XXXI that the same pattern exists here as in the IIA and IIB cases. Solution IIC⁴ uses more labor, irrigation, and dryland acreage, which in turn requires more diesel, oil, natural gas and machinery.

It is of particular interest that in all the comparisons made in the 1440 acre farm solution ${\rm IIA}^1$, ${\rm IIB}^1$ and ${\rm IIC}^1$ use all reduced tillage cropping methods on irrigated land, while their comparisons use a combination of reduced and conventional tillage.

Solution IIC¹ produces 30,322 bushels of wheat 23,679 hundred weights of sorghum, 442 AUM's of graze-out for November-March and 373 AUM's sorghum stubble. In comparison IIC⁴ produces 6,668 tons of silage, 19,063 hundred weights of sorghum, 1,367 AUM's of graze-out for October-

May and 886 AUM's of sorghum stubble.

The net returns for IIC^1 are \$55,630 compared to a minus \$73,390 for solution IIC^4 . Net kilocalories of output for solution IIC^1 are 3,069,196,490 and are 4,901,633,710 for solution IIC^4 .

2680 Cropland Acres

The objective one solution for this size farm also uses the reduced tillage two-year wheat rotation, reduced tillage wheat and sorghum double crop, and reduced tillage wheat-fallow-sorghum three-year rotation heavy irrigation. The objective four solutions again use a combination for the irrigated land of conventional tillage grain sorghum production and reduced tillage silage and rye grazing double crop.

Production of these crops for solution IIIA¹ is 57,523 bushels of wheat, 28,978 hundred weights of sorghum 861 AUM's of graze-out November-March and 338 AUM's of sorghum stubble November-January. Solution IIIA⁴ produces 8,000 tons of silage, 33,347 hundred weights of sorghum 1,640 AUM's of graze-out October-May and 1,777 AUM's of sorghum stubble (Table XXXII).

As has been the pattern in the other solutions, IIIA⁴ requires more dryland acreage, labor, and irrigation water, while IIIA¹ requires more nitrogen, herbicides, and insecticides. An interesting point here is that in solution IIIA⁴ the amount of diesel required (16,672 gallons) is more than twice that of IIIA¹ (5,810 gallons). This is accounted for by the large amount of dryland acreage included in solution IIIA⁴. The remaining fossil fuel inputs (oil, natural gas and machinery) are also required in greater amounts by solution IIIA⁴.

The net returns for IIIA are \$81,280 while solution IIIA returns

TABLE XXXII

COMPARISON OF OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTIONS ONE AND FOUR FOR THE 2680 ACRE CLAY LOAM FARMS

				14,1			
Farr Size				2680	Acres		
Solution Number		IIIA1	$IIIB^1$	IIIc1	IIIA ⁴	IIIB ⁴	111C ⁴
Number of Wells		Six	Six	Four	Six	Six	Four
Total GPM		2400	4500	4000	2400	4500	4000
Identification	Units						4000
Net Returns	DOL	81,280	133,204	106,665	-110,578	-160,708	-147,841
Net Kilocalories	MILLIO	4,850.08669	6,243.57675	5,911.62751	7,610.69423	10,010.92901	9,439,15880
Irrigated CropsA/							
RWG2RCRC	AC	58.9	.6	14.5			
RWGSDC	AC	287.2	287.2	287.2			
RWFS3HI	AC	735.0	1,901.7	1,623.8			
CSMI	AC				266.7	500.0	444.4
RSRSCL	AC				400.0	750.0	666.6
		·		· · · · · · · · · · · · · · · · · · ·		730***	
Dryland CropsA/							
DLW	AC	1,598.8	490.5	754.5			
DLGSC	AC				2,013.3	1,430.0	1,568.9
Crop Products B/							
Wheat	BU	57,523	57,289	57,344			
Grain Sorghum	CWT	28,978	53,093	47,348	33,347	36,730	35,924
Corn Silage	TON				8,000	15,000	13,333
SGGONM	AUM	861	799	814		15,000	13,333
SGGOOM	AUM				1,640	3,075	2,733
GSNJ	AUM	338	874	746	1,777	1,572	1,621
Cropping System ^C /		,					1,021
				~ −	266.7	500.0	444.4
Con Tillage	AC	1,081.2	2,189.5	2,471.7	400.0	750.0	666.6
Red Tillage	AC		77-7		W0010	750.0	000.0
Labor							
Operator Labor	HR	1,254	1,373	1,362	1,151	1,210	1,206
Hired Labor	HR	1,641	2,222	2,080	3.661	4.953	4.634
Irrigation						•	
Total Water Used	ACIN	18,151	31,159	28.060	18.933	35,500	31,553
Inputs '		1					
Nitrogen	CWT	2,303	2,525	2,472	1,387	2,600	2,311
Phosphate	CVT	·					2,311
Herbicide	LB	1,224	2,333	2,069	500	938	884
Insecticide	LB	1,022	2,189	1,911	667	1,250	1,111
Diesel	GALS	5,810	6,738	6,517	16,672	18,597	18,138
011	OTS	2,178	3,389	3,100	3,182	4,700	4,338
Natural Gas	1000	10,729.717	18,510.801	16,657.236	13,363.333	25,056.250	22,270.830
acutar Gas	CUFT		,	-3,037.230	-3,303,333	23,030.230	44,470.030
Machinery	DOL	10,280	14,774	13,704	23.932	40.113	36,258
						77.11.	20,420

A RWG2RCRC, Reduced tillage wheat grain two year rotation of conventional tillage year one and reduced tillage year two; RWG3DC, Reduced wheat grain sorghum double crop; RWFS3HI, Reduced tillage wheat-fallow-sorghum three year rotation heavy irrigation; CSMI, Conventional tillage grain sorghum moderate irrigation; RSRSCL, Reduced tillage silage-rye surface irrigation; DLW, Dryland tillage wheat; DLGSC, Dryland tillage grain sorghum clay soil.

B/SGGONM, Small grain graze out November-March; SGGOOM, Small grain graze out October-May; GSNJ, grain sorghum stubble graze November-January.

 $[\]underline{\text{C}}^{\prime}\text{For irrigated acreage only, Con refers to conventional and Red means reduced tillage.}$

a minus \$110,578. Net kilocalories of output are 4,850,086,690 for $IIIA^{1}$ and 7,610,694,230 for solution $IIIA^{4}$.

In comparing the solutions for the two objective functions for resource situation IIIB, the solution for $IIIB^4$ requires more fossil fuel inputs along with labor, dryland acreage and irrigation, while solution $IIIB^1$ includes more irrigated land and reduced tillage techniques.

Production by IIIB¹ includes 57,289 bushels of wheat, 53,093 hundred weights of sorghum, 799 AUM's of graze-out November-March and 874 AUM's of sorghum stubble. Its comparison, IIIB⁴, produces 15,000 tons of silage, 36,730 hundred weights of sorghum 3,075 AUM's of graze-out October-May, and 1,572 AUM's of sorghum stubble.

The net returns are \$133,204 for ${\rm IIIB}^1$ and a minus \$160,708 for solution ${\rm IIIB}^4$. Solution ${\rm IIIB}^1$ returns 6,243,576,750 net kilocalories of output, while solution ${\rm IIIB}^4$ returns 10,010,929,010 net kilocalories of output.

The final comparison for the clay loam soils is the solutions for $IIIC^{1}$ and $IIIC^{4}$. It follows the same pattern as do the other two comparisons for the 2680 acre clay loam farm (Table XXXII).

Solution IIIC¹ produces 57,344 bushels of wheat, 47,348 hundred weights of sorghum, 814 AUM's of graze-out for November-March and 746 AUM's of sorghum stubble. Solution IIIC⁴ produces 13,333 tons of silage, 35,924 hundred weights of sorghum, 2,733 AUM's of graze-out October-May and 1,621 AUM's of sorghum stubble. The net returns for IIIC¹ are \$106,665, while solution IIIC⁴ returns a minus \$147,846. The net kilocalories of output for IIIC¹ are 5,911,627,510, while 9,439,158,800 kilocalories of output are returned by solution IIIC⁴.

Sandy Loam Soils

560 Cropland Acres

The solutions for IA^1 and IA^4 are similar with the exception of net returns and net kilocalories. Net returns are \$10,367 for solution IA^1 and a minus \$39,079 for IA^4 . Net energy totals 1,191,302,690 kilocalories of output for IA^1 and 2,064,069,510 kilocalories of output for IA^4 (Table XXXIII).

The cropping programs are also similar. Land irrigated totals 145.9 acres and 148.1 acres for IA¹ and IA⁴, respectively. However, the crops do differ with solution IA¹ planting reduced tillage corn grain (42.2 acres) and reduced tillage wheat and soybean double crop (103.7 acres) while solution IA⁴ includes only one irrigated crop, reduced tillage silage and rye grazing double crop (148.1 acres). The acreage of dryland grain sorghum, the only dryland crop included, is approximately the same in the two solutions.

The products produced by solution IA¹ are 5,698 bushels of corn, 5,185 bushels of wheat, 3,629 bushels of soybeans, 8,696 hundred weights of sorghum and 310 AUM's of sorghum stubble. The products produced by solution IA⁴ are 2,961 tons of silage 8,651 hundred weight of sorghum, 607 AUM's of graze-out October-May and 309 AUM's of sorghum stubble (Table XXXIII).

Solutions IB^1 and IB^4 are also similar in some respects. However, net returns for IB^1 are \$867 while solution IB^4 returns a minus \$39,071. Net kilocalories of output for solution IB^1 are 1,191,302,690 compared to 2,490,301,190 for solution IB^4 .

The crops for IB produced 23,889 bushels of corn, 5,185 bushels

TABLE XXXIII

COMPARISON OF OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTIONS
ONE AND FOUR FOR THE 560 ACRE SANDY LOAM FARMS

Farm Size				560 A			
Solution Number		IA ¹	IB1	IC1	IA ⁴	1B ⁴	ıc ⁴
Number of Wells		One	Two	One	Two	Two	One
Total GPM		800	1500	1000	800	1500	1000
Identification	Units	•••					
Net Returns	DOL	10,367	867	9,277	-3 9.079	-62.136	-44,111
Net Kilocalories	MILLIC	N 1,191.30269	1,328.83645	1,234.28077	2,064,06951	2.490.30119	2,185,91518
Irrigated CropsA/							
RCG	AC	42.4	176.9	84.3			
RWGSBDC	AC	103.7	103.7	130.7			
RSRCSL	AC				148.1	277.8	185.1
Dryland CropsA/							
DLGSS	AC.	414.1	279.3	371.9	411.9	282.2	375.9
Crop ProductsB/							
Corn	BU	5,698	23,889	11,833			
Wheat	BU	5,185	5,185	5,185			
Soybeans	BU	3,629	3,629	3,629			
Grain Sorghum	CWT	8,696	5,866	7,812	8,651	5,927	7,872
Corn Silage	TON			7,012	2,961	5,556	3,703
SGGOOM	AUM	~ ~			607	1,139	759
GSNJ	AUM	310	209	278	309	212	281
Cropping System C/	Aurt						
Con Tillage	AC						
Red Tillage	AC	145.9	208.7	188.0	148.1	277.8	185.1
Labor	AC	143.9	208.7	180.0	140.1	211,.0	102-1
_		070		061			007
Operator Labor	HR	873	1,092	964	921	1,111	987
Hired Labor Irrigation	HR	36	134	95	38	101	43
			7.660	F //F		0.511	(00/
Total Water Used Inputs	ACIN	4,435	7,669	5,445	5,033	9,444	6,294
•	CWT	416	618	479	621	919	706
Nitrogen	CVI	73	140	94	74	139	93
Phosphate		323	525		22 2	416	278
Herbicide	LB	456	456	386	· 560	416 560	560
Insecticide	LB	2,915		456			
Diesel	GALS	739	3,454	3,083	2,971	3,023	2,986
011	OTS		1,094	849	791	1,230	917
Natural Gas	1000 CUFT	3,766.786	6,505.493	4,622.608	4,164.062	7,812.500	5,207.031
Machinery	DOL	4,495	7,293	5,369	4,431	7,298	5,251

 $[\]underline{\underline{A}}^{\prime}$ RCG; Reduced tillage corn grain; RWGSBDC, Reduced wheat grain soybean double crop; RSRCSL, Reduced silage and rye circular sprinkler irrigation; DLGSS, Dryland tillage grain sorghum sandy loam.

 $[\]underline{\underline{B}}'_{SGGOOM}$, Small grain graze out October-May; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{\mathrm{C}}/_{\mathrm{For}}$ irrigated acreage only, Con refers to conventional and Red means reduced tillage.

of wheat, 3,629 bushels of soybeans, 5,866 hundred weights of sorghum and 209 AUM's of sorghum stubble. Solution IB⁴ produces 5,556 tons of silage, 5,927 hundred weights of sorghum, 1,139 AUM's of graze-out October-May and 212 AUM's of sorghum stubble.

Solution IC¹ produces 11,833 bushels of corn, 5,185 bushels of wheat, 3,629 bushels of soybeans, 7,812 hundred weights of sorghum and 278 AUM's of sorghum stubble. Solution IC⁴ produces 3,703 tons of silage, 7,872 hundred weights of sorghum, 759 AUM's of graze-out October-May and 281 AUM's of sorghum stubble.

The fossil fuel inputs of nitrogen, insecticides, oil, and natural gas are greater for solution IC^4 . Net returns for IC^1 are \$9,277 but they are a minus \$4,111 for solution IC^4 . The net kilocalories of output are 1,234,280,770 for IC^1 and 2,185,915,180 for solution IC^4 .

1440 Cropland Acres

Solution IIA¹ plants 200 irrigated acres in reduced tillage wheat-soybean double crop and the remaining acres (1240) in dryland sorghum. These crops produce 10,000 bushels of wheat, 7,000 bushels of soybeans, 26,040 hundred weights of sorghum and 930 AUM's of sorghum stubble. Solution IIA⁴ crops consist of 222.2 acres of reduced tillage silage and rye grazing double crop and 1217.8 acres of dryland wheat. This produces 4,444 tons of silage, 25,573 hundred weights of sorghum, 911 AUM's of graze-out and 913 AUM's of sorghum stubble (Table XXXIV).

Other categories that are used in larger amounts by IIA^4 are irrigation water and fossil fuel inputs of nitrogen, phosphate, insecticides, diesel, oil, natural gas and machinery. However, solution IIA^1 uses more herbicide than IIB^4 .

TABLE XXXIV

COMPARISON OF OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTION ONE AND FOUR FOR THE 1440 ACRE SANDY LOAM FARMS

Farm Size	•			1440 Ac			
Solution Number		IIA1	${\tt IIB}^1$	IIC_1	IIA ⁴	IIB ⁴	IIC4
Number of Wells		Three	Three	Two	Three	Three	Two
Total GPM		1200	2250	2000	1200	2250	2000
Identification	Units						
Net Returns	DOL	21,132	13.646	22.074	-86,696	-115,019	-101,437
Net Kilocalories	MILLIO	3.228.59608	3,197,92614	3,370,18875	4,786.84581	5,425.73698	5,273.77215
Irrigated CropsA/							
RCG	AC	200.0	207.4	207.4			
RWGSBDC	AC			168.8			'
RSRCSL	AC				222.2	416.7	370.4
Dryland CropsA/		-			· · · · · · · · · · · · · · · · · · ·		
DLGSS	AC	1,240	1,232	1,063	1,217.8	1,023.3	1,069.6
Crop ProductsB/							
Corn	BU			22,784			
Wheat	BU	10,000	10,370	10,370			
Soybeans	BU	7,000	7,259	7,259			
Grain Sorghum	CWT	26,040	25,884	22,340	25.573	21,490	22,461
Corn Silage	TON				4,444	8,333	7,408
SGGOOM	AUM		 .		911	1,798	1,519
GSNI	AUM	930	924	797	<u> </u>	768	***************************************
Cropping System C/							
Con Tillage	ĄС						
Red Tillage	AC	200.0	207.4	376.2	222.2	416.7	370.4
Labor							
Operator Labor	HR	1,022	1,034	1,210	1,101	1,275	1,248
Hired Labor	HR	1,138	1.142	1,365	1.059	1,267	1,203
Irrigation		-11:50					
Total Water Used	ACIN	6,600	6,844	10,894	7,555	14,166	12,594
Inputs ·							
Nitrogen	CWT	860	865	1,118	1,231	1,678	1,572
Nitrogen	CWT	100	104	188	111	208	185
Phosphate	LB	500	519	772	333	625	556
Herbicide		1,240	1,233	1,233	1.440	1,440	1,440
Insecticide	LB	7,168	7,156	7,831	7,577	7,655	7,636
Diesel	GALS	1,397	1,421	1,866	1,500	2,157	2,001
011	OTS	5,610.000	5,817.777	9,248.039	6,250.000	11,718,750	10,417.968
Natural Gas	1000 CUFT	2,010.000	7,01/.///	9,240.139	0,230.000	11,/10,/30	10,417.908
Machinery	DOL	7,725	7,901	11,404	7,892	12,189	11,167
						<u></u>	

MRCG; Reduced tillage corn grain; RWGSBDC, Reduced wheat grain soybean double crop; RSRCSL, Reduced silage and rye circular sprinkler irrigation; DLGSS, Dryland tillage grain sorghum sandy loam.

 $[\]frac{B}{S}$ SGGOOM, Small grain graze out October-May; GSNJ, Grain sorghum stubble graze November-January.

C/For irrigated acreage only, Con refers to conventional and Red means reduced tillage.

Net returns for solution IIA^1 are \$21,132 while solution IIA^4 returns a minus \$86,696. The net kilocalories of output for IIA^1 are 3,228,596,080, while they are 4,786,845,810 for solution IIA^4 .

Shifting to the "B" water situation increased irrigated acreage (for IIB^1) only 7.4 acres (207.4) while solution IIB⁴ has 194.5 additional acres (416.7) of irrigated production. This difference is associated with the irrigation cost for the solutions along with the difference in the objective functions used. This shift also increased the amount of inputs required by the IIB⁴ solution.

The products for IIB¹ are 10,370 bushels of wheat, 25,884 hundred weights of sorghum, 7,259 bushels of soybeans and 924 AUM's of sorghum stubble. Solution IIB⁴ produces 8,333 tons of silage, 21,490 hundred weights of sorghum, 1,708 AUM's of graze-out October-May and 768 AUM's of sorghum stubble. The net returns are \$13,646 for solution IIB¹ and a minus \$115,019 for solution IIB⁴. The net kilocalories of output for IIB¹ are 3,197,926,140 and 5,425,736,980 for IIB⁴.

The divergence between objective function one and four solutions for resource solution IIC is almost as pronounced as for IIB. The returns, production levels and inputs used are presented in Table XXXIV.

2680 Cropland Acres

Viewing the overall results of the 2680 acre sandy loam farms in Table XXXV, it is evident that the relatively high irrigation costs have a pronounced effect on the organization selected. The pattern is much like that of the 1440 acre farms.

Solutions IIIA¹ and IIIA⁴ are similar in many respects. The same irrigated crops, reduced tillage wheat and soybean double crop in

TABLE XXXV

COMPARISON OF OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTIONS ONE AND FOUR FOR THE 2680 ACRE SANDY LOAM FARMS

Solution Number Number of Wells	35.917 LION 5,893.76376 : : 400	111B ¹ Six 4500 20,891 5,832,42388 414.8 2,265.2	2680 IIIC ¹ Four 4000 37,297 5,873.27252 40.0 414.8	111A ⁴ 51x 2400 -169,651 9,010.26323	IIIR ⁴ Six 4500 -227,186 10,288,04556	IIIC ⁴ Four 1000 -199,847 9,983.65°55
Total GPM	2400 s 35.917 LION 5,893.76376 3 400	4500 20,891 5,832,42388 414.8	4000 37,297 5,873,27252 40.0 414.8	2400 -169,651 -2,010.26323	4500 -227,186 10,288,04556	Four 1000 -199,847
Identification	ts 35.917 LION 5,893.76376 : : 400 :	20,891 5,832,42388 414.8 	37,297 5,873,27252 40.0 414.8	-169,651 9,010,26323 	-227,186 10,288,04556	-199,847 9,983,65°55
Net Returns DOL Net Kilocalories MILI Irrigated Crops △/ AC RCG AC RNGSBDC AC RSRCSL AC Dryland Crops △/ AC Crop Products B/ Corn BU BU	35.917 LION 5,893.76376 : : 400	5,832,42388 	40.0 414.8	9,010.26323 	10,288,04556 	9,983.65°55
Net Kilocalories MILI Irrigated Crops AC RCG AC RWGSBDC AC RSRCSL AC Dryland Crops AC Crop Products BU	LION 5,893,76376	5,832,42388 	40.0 414.8	9,010.26323 	10,288,04556 	9,983.65°55
RCG	400	414.8	40.0 414.8 	 	 ,	
RCG AC RWGSBDC AC RSRCSL AC Dryland Crops A/ DLGSS AC Crop Products B/ Corn BU	2 400 2		414.8	 444.4	 833.3	 740.7
RWGSBDC RSRCSL Dryland Crops DLGSS AC Crop Products BU	2 400 2		414.8	 444.4	833.3	740.7
Dryland CropsA/ DLGSS AC Crop ProductsB/ Corn BU			<u>-</u> -	444.4	833.3	740.7
Dryland Crops A/ DLGSS AC Crop Products B/ Corn BU	· · · · · · · · · · · · · · · · · · ·			444.4	833.3	740.7
DLGSS AC Crop Products Corn BU	2,280	2,265.2	0.005.0			
DLGSS AC Crop Products B/ Corn BU	2,280	2,265.2	0.005.0			
Crop Products B/	2,280	2,265.2				
corn Bu			2,225.2	2,235.6	1,846.7	1,939.3
corn Bu						
	·		5,403			
		20,741	20,741			
Soybeans BU		14,519	14,519			
Grain Sorghum CW		47,569	46,728	46,947	38,780	40,725
Corn Silage TO		47,505		8,889	16,667	14,813
SGGOOM AU				1,822	3,417	3,037
GSNJ AU		1.698	1,668	1,676	1.385	1,454
Cropping System C/	** ***********************************			A3V/3		
Con Tillage AC			·			
Red Tillage AC	400.0	414.8	454.8	444.4	833.3	740.7
Labor	400.0	414.0	434.0	444.4	033.3	/4././
Operator Labor HR	1,112	1,118	1,148	1.159	1,210	1,210
Hired Labor HR	2,811	2,995	3,059	2,924	3,637	3,455
Irrigation						
Total Water Used ACIN	N 13,320	13,688	14,649	15,111	28,333	25,183
Inputs						
Nitrogen CWT	1,620	1,630	1,690	2,362	3,257	3,044
Phosphate CUT		207	277	222	417	370
Herbicide LB	1,000	1,037	1,097	667	1,250	1,111
Insecticide LB	2,280	2,265	2,265	2;680	2,680	2,680
Diesel GALS		13,272	13,432	14,114	14,269	14,232
O11 OTS		2,738	2,843	2,896	4,210	3,897
Natural Gas 1000	0 11,220.000	11,635.555	12,448.973	12,500.000	23,437.500	20,832.031
Machinery DOL		15,387	16,218	15,370	23,964	21,917

 $[\]frac{\Delta}{N}$ RCG; Reduced tillage corn grain; RWGSBDC, Reduced wheat grain soybean double crop; RSRCSL, Reduced silage and rye circular sprinkler irrigation; DLGSS, Dryland tillage grain sorghum sandy loam.

 $[\]underline{\mathtt{B}'}_{\mathsf{SGGOOM}}$, Small grain graze out October-May; GSNJ, Grain sorghum stubble graze November- January.

 $[\]underline{\text{C}}/_{\text{For}}$ irrigated acreage only, Con refers to conventional and Red means reduced tillage.

solution ${\rm IIIA}^1$ and reduced tillage silage and rye grazing double crop in ${\rm IIIA}^4$, are listed.

Solution IIIA¹ produces 20,000 bushels of wheat, 47,880 hundred weights of grain sorghum, 14,000 bushels of soybeans and 1,710 AUM's of sorghum stubble. Solution IIIA⁴ produces 8,889 tons of silage, 46,947 hundred weights of sorghum along with 1,676 AUM's of sorghum stubble from dryland sorghum, plus 1,822 AUM's of small grain graze-out October-May.

All other categories except herbicides are used in larger amounts by solution ${\rm IIIA}^4$. The net returns are \$35,917 for solution ${\rm IIIA}^1$ and a minus \$169,651 for solution ${\rm IIIA}^4$. Net kilocalories of output for solution ${\rm IIIA}^1$ are 5,893,763,760. They total 9,010,263,230 kilocalories of output for ${\rm IIIA}^4$.

Solutions IIIB¹ and IIIB⁴ (Table XXXV) show the same pattern of results as did the IIB comparisons except in larger amounts. All categories of irrigated land, labor, irrigation water and all eight fossil fuel inputs are used in larger amounts by IIIB⁴.

The products from the crops for solution IIIB¹ are 20,741 bushels of wheat, 47,569 hundred weights of sorghum, 14,519 bushels of soybeans and 1,698 AUM's of sorghum stubble. Solution IIIB⁴ produces 16,667 tons of silage 38,780 hundred weights of sorghum, 3,417 AUM's of graze-out October-May and 1,385 AUM's of sorghum stubble.

The net returns for solution IIIB 1 are \$20,891 and a minus \$227,186 for solution IIB 4 . The net kilocalories of output for IIIB 1 are 5,832,423,880, approximately one-half the output for solution IIIB 4 (10,288,045,560).

The solution comparison for $IIIC^{1}$ and $IIIC^{4}$ shows the addition of

irrigated reduced tillage corn grain to solution IIIC¹. However, an even larger irrigated acreage is added to solution IIIC⁴ (454.8 acres compared to 740.7 acres).

Again all categories except dryland acreage are included in larger amounts in solution ${\rm IIIC}^4$. The net returns for ${\rm IIIC}^1$ are \$37,297, while solution ${\rm IIIC}^4$ net returns are a minus \$199,847. Solution ${\rm IIIC}^1$ generates 5,873,272,520 kilocalories of output compared to 9,983,659,550 for solution ${\rm IIIC}^4$ (Table XXXV).

On the production side solution IIIC¹ produces 20,741 bushels of wheat, 46,728 hundred weights of sorghum, 14,519 bushels of soybeans, 5,403 bushels of corn and 1,668 AUM's of sorghum stubble. Solution IIIC⁴ produces 14,813 tons of silage, 40,725 hundred weights of sorghum, 3,037 AUM's graze-out October-May and 1,454 AUM's of sorghum stubble. Detailed organizations for each farm solution can be found in Appendix C.

Shadow Prices

Clay Loam Soils. The irrigated conventional tillage methods have shadow prices ranging from \$1.04 per acre for wheat grain to \$116.34 per acre for sudan hay (Table LXXIV, Appendix D). The values, associated with objective function one, indicate the reduction in net returns that would occur if one acre of the crop was forced into the solution. In objective function four the range varies from a low of 152,930 kilocal-ories of energy for sudan hay to a high of 9,865,150 kilocalories of energy for soybeans. These are the kilocalories that would be lost if an acre of either one of these crops were produced.

Considering reduced tillage methods the low shadow price with

objective function one is \$.29 for the three-year rotation of wheat-fallow-sorghum moderate irrigation. The highest shadow price is \$118.00 for grazed wheat and sudan hay double crop. The shadow prices for reduced tillage methods with objective function four tend to be less than those computed for irrigated conventional tillage methods of production. The range varies from a low of 36,090 kilocalories of energy for sorghum and soybean double crop to a high of 3,180,080 kilocalories of energy for the two-year wheat rotation. Of particular interest is the three-year rotation of wheat-fallow-sorghum heavy irrigation which is in the solution for each farm in OBJ1, but generates a small shadow price in kilocalories of energy for objective four solutions. In contrast silage and rye graze double crop found in solution for all farms in OBJ4 is in solution at a zero level in OBJ1.

The dryland crop having the highest shadow price for OBJ1 is small grain graze-out (\$38.28) while grain sorghum generates the lowest of \$1.58. The dryland crops have relatively low shadow prices in kilocalories per acre. The values for dryland wheat range from 142,080 for solution IB to 684,920 kilocalories of energy for all the "C" water situations. Small grain graze-out has a shadow price of 514,960 for all situations.

Sandy Loam Soils. No irrigated conventional tillage methods are included in the solution for either objective function. All three methods of production generate high shadow prices both in returns and kilocalories.

Considering the reduced tillage methods the most interesting result concerns the wheat and soybean double cropping technique.

Objective function one solutions include this scheme in all cases, but it has the highest shadow prices in kilocalories (7,791,250) for objective function four.

Dryland grain sorghum is found in the solution for both objective functions. This demonstrates the efficiency of this crop harvested for grain and then utilized for grazing. All shadow prices are given in Appendix D.

CHAPTER VI

SUMMARY

The central bojective of this study is to determine if adoption of reduced tillage cropping techniques can reduce the amount of fossil fuel energy required in producing crops while not hampering the net returns to the farm. A second purpose is to identify shifts in crops and cropping techniques that will increase efficiency of fossil fuel energy use on representative farms in the Oklahoma Panhandle. These two issues are accomplished through four objectives: (1) Development of enterprise budgets for reduced tillage methods on irrigated land, (2) Estimate the quantities of fissil fuel energy required by the conventional, reduced, and dryland tillage methods, (3) Determine the profit maximizing organization for representative farms, and (4) Maximize net energy output for representative farms.

The representative farms chosen for the Oklahoma Panhandle consist of three cropland sizes (560, 1440 and 2680 acres) which represent the small, medium, and large farms for the study area. Each farm size is characterized by two soil types (clay loam with surface irrigation, and sandy loam with circular sprinkler irrigation) and three water situations (400, 750, and 1000 GPM) with a specified number of wells for each situation.

The analytical procedure chosen was to construct a linear programming model and use it to determine the optimum organization for each farm situation. The model is designed so it can be used to satisfy a number of objective functions. Two functions are maximized for each farm situation in this study, net returns and net kilocalories of output.

Each solution can choose from seven irrigated crops (corn, wheat, silage, sorghum, small grain graze-out, sudan and soybeans) produced as single crops under conventional tillage techniques and as single, rotation and double cropping schemes under irrigation. The dryland production alternatives consist of three crops (wheat, sorghum, small grain graze-out) that can be produced on either of the two soil types.

Results

The solutions are specific to their objective function, soil, and water situation. Twelve solutions are discussed in Chapter V for each farm size. This section summarizes these results by farm size.

560-Cropland Acre Solutions

Objective Function One. The maximization of net returns is the objective. The three situations for the 560 acres farm have two wells pumping 800 GPM and 1500 GPM, and one well pumping 1000 GPM, respectively. The net returns for the clay loam soil solutions vary from a low of \$23,785 (800 GPM) to a high of \$30,688 (1500 GPM). The variation in net returns is affected by the irrigation water availability since the farm size and other inputs remain constant. The net returns on the sandy loam soils do not follow the same pattern. In fact, the high and low range are the opposite in the case of this soil. The low net return is \$867 (1500 GPM), while the high net return is \$10,367 (800 GPM).

This range and shift in net returns is once again associated with the availability of irrigation water. The sandy loam soils irrigated with circular sprinkler systems, thereby incurring a higher variable irrigation cost. Thus the higher variable irrigation cost in the 1500 GPM farm is reflected by the low net return. The corresponding net kilocalories of energy for the clay laom soils are 1,220,455,940 for the 800 GPM farm and 925,595,380 for the 1500 GPM farm. The corresponding kilocalories of energy for the clay loam soils are 1,220,455,940 for the 800 GPM farm and 925,595,380 for the 1500 GPM farm. The corresponding kilocalories of energy for the sandy loam soils are 1,328,836,450 for the 1500 GPM farm and 1,191,302,690 kilocalories for the 800 GPM farm.

Objective Function Four. Maximizing net kilocalories of energy is the objective. The same irrigation characteristics are used for this objective function as discussed for the previous function. The value of the objective for clay loam soils ranges from a low of 1,930,907,590 kilocalories of energy for the 800 GPM farm to a high of 2,731,557,340 for the 1500 GPM farm. This variation can once again be accounted for by the increased water availability on the 1500 GPM farm. The sandy loam farms follow the same pattern with the 1500 GPM farm generating the highest kilocalories of energy return at 2,490,301,190 and the lowest return from the 800 GPM solution at 2,064,069,510 kilocalories of energy. Here the variable irrigation cost does not affect the optimization of objective function four. Thus the irrigation water availability in the 1500 GPM farm is beneficial. The net returns that correspond with these results for the clay loam soils are a minus \$27,030 for the

800 GPM farm which is the lowest and a minus \$43,209 for the 1500 GPM farm which is the highest. The corresponding net returns for the sandy loam soils range from a minus \$62,136 for the 1500 GPM farm to a minus \$39,079 for the 800 GPM farm.

Clay Loam Crops. The irrigated crops produced by objective function one are reduced tillage wheat two-year rotation, reduced tillage wheat and sorghum double crop, reduced tillage wheat-fallow-sorghum three-year rotation heavy irrigation. Conventional tillage soybeans is the sole conventional method used and it is included only on the 1500 GPM farm. Dryland wheat is the only crop produced under dryland methods and it is not included in the 1500 GPM farm because all acreage was irrigated. In each case the majority of the cropland is planted in irrigated crops. The irrigated crops produced in objective function four solutions are conventional tillage sorghum moderate irrigation and reduced tillage silage and rye grazing. Dryland grain sorghum is planted in all three situations. In contrast to objective function one, a complete shift in crops is made to those producing more net kilocalories of output per acre. In each case objective function four solutions utilize more dryland acreage.

Sandy Loam Crops. The irrigated crops produced in objective function one are reduced tillage wheat and soybeans double crop and reduced tillage corn for grain. The dryland crop is grain sorghum which is also included in objective function four solutions. The sole irrigated crop for objective function four solutions is reduced tillage silage and rye grazing double crop. Again the shift in irrigated crops is seen but in the dryland crop sorghum is planted in both objective functions.

This demonstrates the efficiency of the dryland sorghum as a cash crop and as a high energy efficiency crop, which is utilized as a grain and a forage. In both functions more dryland than irrigated acreage is used. This is due to the high variable irrigation cost in objective function one and the nature of objective function four, since the dryland crops are a more efficient producer of net kilocalories of energy.

<u>Input Use</u>. In both objective functions and all farm situations it is evident that the increase in irrigation water is beneficial, with the exception of sandy loam soils in objective function one due to the high variable irrigation cost. Of particular interest is the amount of irrigation water used. Objective function four solutions for both soils exceed the amount used by any of the objective function one solutions. This is surprising since less irrigated land is included in the objective function four solutions. This means that a higher concentration of irrigation water per acre is needed by the crops in the objective function four solutions.

Generally a higher amount of fossil fuel inputs are used by objective function four solutions than by objective function one solutions. This indicates that with the proper crops an increase rather than a decrease in fossil fuel inputs is incurred to increase the net kilocalories of output for the farm.

1440-Cropland Acre Solutions

Objective Function One. The three situations for the 1440 acre farm have three wells pumping 1200 GPM and 2250 GPM, and two wells pumping 2000 GPM, respectively. The net returns for the clay loam soil

solutions vary from a low of \$42,605 (1200 GPM) to a high of \$59,019 (2250 GPM). Again as was the case in the 560 acre farm the increase in water availability affects the net returns. The returns on the sandy loam soils do not follow the same pattern. This change in the pattern is associated with the higher variable irrigation cost found in each of the "class B" water situations. The net returns vary from a low of \$13,646 (2250 GPM) to a high of \$22,074 (2000 GPM). Once again the high variable irrigation cost of the 2250 GPM is reflected by the low net return. The corresponding net kilocalories of energy for the clay loam soils are 2,538,177,250 for the 1200 GPM farm and 3,234,922,270 for the 2250 GPM farm. The corresponding kilocalories of energy for the sandy loam soils are 3,197,926,140 for the 2250 GPM and 3,370,188,750 kilocalories of energy for the 2000 GPM farm.

Objective Function Four. The same irrigation characteristics hold true for this objective function as discussed for the previous function. The clay loam soils range from a low of 3,986,972,810 (1200 GPM) kilocalories of energy to a high of 5,187,090,200 (2250 GPM). In moving to the 1440 acre farm once again the increase in irrigation water is evidently beneficial. The sandy loam farms follow the same pattern with the 1200 GPM farm generating the lowest return in kilocalories of energy at 4,786,845,810 and the 2250 GPM farm generating the highest at 5,425,736,980 kilocalories of energy which are again not affected by the high variable irrigation cost. The net returns that correspond with these results for the clay loam soils are a minus \$80,742 from the 2250 GPM farm and a minus \$56,109 from the 1200 GPM farm. The corresponding net returns for the sandy loam soils are a minus \$86,696

for the 1200 GPM farm and a minus \$115,019 for the 2250 GPM farm.

Clay Loam Crops. The irrigated crops produced by objective function one are reduced tillage wheat two-year rotation, reduced tillage wheat and sorghum double crop and reduced tillage wheat-fallow-sorghum three-year rotation heavy irrigation. Dryland wheat is again the only crop produced under dryland methods. The major portion of the cropland (2250 GPM and 2000 GPM) is planted in irrigated crops while more than half of the 1200 GPM farm plants dryland wheat. The irrigated crops produced in objective function four are again conventional tillage sorghum moderate irrigation and reduced tillage silage and rye grazing. Dryland sorghum is planted in all three situations. As in the 560 acre farm a complete shift in crops is made in objective function four to those producing more net kilocalories of output per acre. The large portion of land is planted again in dryland acreage.

Sandy Loam Crops. The irrigated crops produced in objective function one are the same as those produced in the 560 acre farms, reduced tillage wheat and soybean double crop and reduced tillage corn for grain. However, with the increase in variable irrigation cost the corn for grain is produced only in the 2000 GPM farm. The dryland crop is grain sorghum which is also raised in objective function four. Again the sole irrigated crop for objective function four is reduced tillage silage and rye grazing double crop. Throughout all the sandy loam results more dryland acreage is utilized because of the high variable irrigation cost of objective function one and the nature of objective function four.

Input Use. The increase in irrigation water is again beneficial throughout both objective functions, except for the sandy loam soils in objective function one. The point noted in the 560 acre farm of more irrigation water being utilized on less total irrigated land in objective function four also holds true for the 1440 acre farm. This again demonstrates the concentration of the irrigation application per acre required by the objective function four crops.

2680-Cropland Acre Solutions

Objective Function One. The three situations for the 2680 acre farm have six wells pumping 2400 GPM and 4500 GPM, and four wells pumping 4000 GPM, respectively. The net returns for the clay loam soil solutions vary from a low of \$81,280 (2400 GPM) to a high of \$133,204 (4500 GPM). The net returns for the sandy loam soil solutions vary from a low of \$20,891 (4500 GPM) to a high of \$37,297 on the 4000 GPM farm. The lower returns on sandy loam soils reflect the variable irrigation cost on the sandy loam soils.

The corresponding net kilocalories of energy for the clay loam soils are 4,850,086,690 for the 2400 GPM farm and 6,243,576,750 kilocalories of energy for the 4500 GPM farm. While the corresponding net kilocalories of energy for the sandy loam soils are 5,832,423,880 kilocalories of energy for the 4500 GPM farm and 5,873,272,520 for the 4000 GPM farm.

Objective Function Four. The clay loam soils range from a low of 7,610,694,230 kilocalories of energy (2400 GPM) to a high of 10,010,929, 010 (4500 GPM). The sandy loam soil farms vary from a low of

9,010,263,230 kilocalories of energy for the 2400 GPM farm to a high of 10,288,045,560 for the 4500 GPM farm. The net return generated by the clay loam soil solutions are a minus \$110,578 for the 2400 GPM farm and a minus \$160,708 for the 4500 GPM farm. The sandy loam soils generate a net return of a minus \$169,651 for the 2400 GPM farm and a minus \$227,186 for the 4500 GPM farm.

Clay Loam Crops. The irrigated crops included in objective function one solutions are the same as those produced on the 1440 acre farm. These are reduced tillage wheat two-year rotation, reduced tillage wheat and sorghum double crop and reduced tillage wheat-fallow-sorghum three-year rotation. While once again dryland wheat is the only dryland crop produced. Again most of the land on the 4500 and 4000 GPM farms is planted in irrigated crops, while the 2400 GPM farm utilizes more dryland acreage because less irrigation water is available. The irrigated and dryland crops included in objective function four solutions are the same as for the 1440 acre solutions, conventional tillage sorghum moderate irrigation, reduced tillage silage and rye grazing double crop and dryland grain sorghum with the dryland sorghum requiring more acreage.

Sandy Loam Crops. The irrigated crops included in objective function one solutions are reduced tillage wheat and soybean double crop and reduced tillage corn for grain. However, again corn for grain is produced only by the 4000 GPM farm. For the third time dryland grain sorghum is planted in all six farm solutions, while reduced tillage silage and rye grazing double crop is the sole irrigated crop in the objective function four solutions. With the high variable irrigation

cost associated with the objective one sandy loam farms and the nature of objective function four dryland grain sorghum again requires more acreage.

Input Use. Like the small and medium size farms, irrigation water is beneficial for both objective functions, except for the usual sandy loam function one results. The irrigation water and fossil fuel inputs are again used in a higher amount by objective function four solutions. As pointed out earlier in the chapter, this demonstrates that the proper crops are the major factor which increase net kilocalories of energy rather than a reduction in fossil fuel inputs.

Conclusions

The amount of irrigated acreage is proportional to the water availability of each farm and irrigation situation. The only exception is for objective function one sandy loam soils. This is due to the high irrigation cost associated with objective function one sandy loam soils. Of course, net returns for the solutions are reflected in the cost of pumping irrigation water.

Reduced tillage methods are used more than conventional tillage methods in both objective functions and farm situations. This indicates the increased efficiency of the reduced tillage methods compared to the conventional tillage methods. It is also evident that the dryland crops generate a relatively high output of net kilocalories of energy. This is demonstrated by the objective function four solutions, where each solution includes more acreage of dryland than irrigated crops.

In comparing objective function one (maximizing net returns) and

objective function four (maximizing net kelocalories of energy) three specific points are noted. First, the objective function four solutions require more fossil fuel inputs per farm. The second point is the increase in fossil fuel inputs is accounted for by the shift to crops that utilize the forage as well as the grain produced. The third point is that when maximizing the net kilocalories of energy a large negative net return is associated with the results.

This suggests that additional research is needed to maximize another measure of physical output. Perhaps an additional measure of interest is the amount of energy produced from the crop product that can be assimilated by man and nonruminant animals. Without this additional measurement a conclusion cannot be reached at this point.

Need for Further Study

This study suggests many additional areas needing further attention. The linear programming model is used in this study to maximize net returns (with current energy prices) and to maximize net kilocalories of output. It would be of use to expand the analysis by determining the effect of increasing energy prices on the profit maximizing solution. This analysis, completed using variable price programming, could trace the relationship between the price of fossil fuel energy, the amount of energy used and the crops produced.

The analysis was completed assuming natural gas is available to pump irrigation water. However, the natural gas available to agriculture may be reduced. Thus another extension of the analysis should consider the effect of using alternative irrigation fuels (electricity or diesel) on net returns and fossil fuel energy used. Furthermore,

the effect of using alternative sprinkler irrigation systems (side move, side move tow) on net returns and net kilocalories of output should also be determined.

The solution developed indicates soybeans are relatively inefficient in producing net kilocalories of output. However, soybeans are normally considered a protein producing crop. Another objective function could be used to trace the relationship between net returns, net kilocalories of output and protein produced for the representative farms.

With these extensions the analysis will provide even more information concerning the proper use of fossil fuels and fossil fuel products in increasing agricultural production in the study area over the long run. These results should be useful to economists, policy-makers and farm managers to better understand the energy situation and its implications for agricultural production.

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APPENDIX A

ENTERPRISE BUDGETS FOR SPECIFIED CROPS UNDER DRYLAND IRRIGATED CONVENTIONAL AND IRRIGATED REDUCED TILLAGE METHODS

TABLE XXXVI
DRYLAND WHEAT, CLAY LOAM SOIL

CATEGORY	UN ITS	PRICE	QUANTITY	VALUE
PRODUCTION: WHEAT GRAZING	BU. AUMS	2.050 10.000	16.500 0.350	3.50
OPERATING INPUTS: WHEAT SEED NITROGEN CUSTOM COMBINE CLSTOM HAULING TRACTOR FUEL COST TRACT REPAIR COST TRACTOR LUEE COST EQUIP REPAIR COST TOTAL OPERATING COST	BU. LBS. ACRE BU. ACRE ACRE ACRE	5.000 0.140 9.800 0.100	0.750 60.000 1.000 16.500	3.75 8.40 9.80 1.65 0.78 0.38 0.12 0.27
RETURNS TO LAND, LABOR, CAPITAL, MACHINER OVERHEAD, RISK, AND MANAGEMENT	Υ,			12.18
CAPITAL COST: ANNUAL OPERATING CAPITAL TRACTOR INVESTMENT EQUIPMENT INVESTMENT TOTAL INTEREST CHARGE		0. 100	10.732 5.550 5.954	1.07
RETURNS TO LAND, LABOR, MACHINERY, OVERHEAD, RISK AND MANAGEMENT	•			9. 96
OWNERSHIP COST: (DEPRECIATION, TAXES, INSURANCE) TRACTOR EQUIPMENT TOTAL CWNERSHIP COST	DOL.			0.66 0.93
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				8, 37
LABCR COST: MACHINERY LABOR TOTAL LABOR COST	HR .		0.574	1. 72 1.72
RETURNS TO LAND, OVERHEAD, RISK AND MANAGEMENT	•			6.65

PANHANDLE ENERGY BUDGETS

ENTERPRISE 16 AREA AND COUNTY 12 DETAIL QQ IRIG. LEVEL Q LAND CLASS 1 GRAZING 3 MACH. COMP. _1 IRIG. SYSTEM Q PRICE VECT 1 INDIV. NUMBER _Q ANNUAL CAPITAL MONTH: 6 DATE PRINTED: 03/05/75

TABLE XXXVI (Continued)

		FEB	MAR	4 APR	MAY	JUN	JUL:	8 AUG	SEP.	DCT	NOV	12 DEC	PRICE	14 WEIGH		ITEM	17 TYPE	
LINE PRODUCTION	• • • • • •	7			MIIMBE	R OF	MITS.								CODE	CODE		
1 WHEAT	0.0	0.0	0.0	0.0		16.50		0.0	0.0	0.0	0.0	0.0	2.050	0.0	. 2.	76.	2.	٥.
2 GRAZING			0. 05			0.0	0.0	0.0	0.0	0.0			10.000	0.0	10.	89.	2.	ō.
PERATING INPUTS		**			RAT	E/UNI	r .		•				PRICE		UNIT		TYPE	CONT
11 WHEAT SEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	5.000	0.0	CODE 2.		3.	0.
L2 NITROGEN	0.0	0.0	0.0	0.0		0.0		60.00	0.0	0.0	0.0	0.0	0.140	0.0		211.	3.	Ö.
13 CUSTON COMBIN		0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	9.800	0.0	7.	305.	3.	ò.
4 CUSTOM FAULIN		0.0		0.0		16.50	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.0		306.	3.	ō.
MACHINERY REQUIR	EMENTS					T IME	SOVER						XXXXX	xxxxx	POWER		TYPE	CONT
S SWEEP	0.0	0.0	0.0	0.0	0.0	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	UNIT	CDOF.	4.	٥.
39 ROD WEEDER	0.0	0.0		0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.	59.	4.	o.
40 DRILL WO/FERT			0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	4.		4.	ŏ.
41 ANHYDROUS APPI		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	73.	4.	ŏ.
	DLE ENER(Y BUDG	ETS											NERY C			1	
•																		
NO NAME CHANG	ES HAVE E	EEN ST	ORED W	ITH TH	IS BUDG	ET												
***NO COMPLEMENT	CHANGES												·					
		MONT	HLY SUI	MARY	OF RECE	IPTS /	AND EXP				Alle	SED	OCT	NOV.	DEC			
CATEGORY	1100	MONT	HLY SUI	MARY FEB	OF RECE	IPTS APR	AND EXP	JUI	4 J	UL.	AUG 0-0	SEP 0-0	0CT	NOV	DEC			OTAL
CATEGORY FOTAL RECEIPTS	UNIT	MONT J	HLY SUI	MARY FEB	OF RECE MAR 0.50	IPTS	AND EXP	33.1	N J	. 0	0.0	0.0	0.0	1.00	1.00		3	7.32
CATEGORY FOTAL RECEIPTS FOTAL EXPENSES	UNII ACRI	MONT J O	AN (MARY FEB 0.50	OF RECE MAR 0.50 0.0	IPTS AFR	AND EXPI	33.4 11.6	N J B2 D B0 O	0							3 2	
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND,	UNII ACRI	HONT J O O AP IT AL	HLY SUI AN (.50 (.0 (MARY FEB 0.50	OF RECE MAR 0.50 0.0	IPTS AFR	AND EXPI	33.4 11.6	N JO B2 D. BO G. AGEMEN	0	0.0	0.0	0.0	1.00	1.00		3 2 1	7.32 5.14
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND,	UNIT ACRI ACRI LABOR, C	MONT J O O AP IT AL	HLY SUI AN (.50 (.0 (, MACH	MARY FEB 0.50 0.0 INERY,	OF RECE MAR 0.50 0.0 CVERHE	IPTS AFR 0.0 0.0 AD, R	MAY 0.0 0.0 0.0 ISK, AN	JUI 33.4 11.6 D MAN	N JO B2 D. BO G. AGEMEN	0 7	0.0 8.75	0.0 4.58	0.0	1.00	1.00		3 2 1	7.32 5.14 2.18
CATEGORY FOTAL RECEIPTS FOTAL EXPENSES RETURNS TO LAND,	UNIT ACRI ACRI LABOR, C	MONT J O O AP IT AL	HLY SUI AN (.50 (.0 (, MACH	MARY FEB 0.50 0.0 INERY,	OF RECE MAR 0.50 0.0 CVERHE	IPTS AFR 0.0 0.0 AD, R	MAY 0.0 0.0 0.0 ISK, AN	JUI 33.4 11.6 D MAN	N JI B2 D. BO G. AGEMEN	0 7	0.0 8.75	0.0 4.58	0.0	1.00	1.00		3 2 1	7.32 5.14 2.18
CATEGORY FOTAL RECEIPTS FOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL	UNITACRE ACRE LABOR, C	MONT J O AP IT AL O LABO O NACH	HLY SUI AN .50 (.0 (.0 (.0 (.0 (.0 (.0 (.0 (MARY FEB 0.50 0.0 INERY, 0.0 IR EM EN	OF RECE MAR 0.50 0.0 CVERHE 0.0 TS BY N 0.0	IPTS AFR 0.0 0.0 CAD, R:	O.O O.O O.O O.O O.O O.O	JUI 33.4 11.6 D MANA 0.6	N J1 B2 0. B0 0. AGEMEN	0	7.29 0.12	3.44 0.33	0.0 0.0 0.0	0.0 0.0	0.0		1	7.32 5.14 2.18 0.73
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE	UNITACRE ACRE LABOR, CODE	MONT J O APITAL O LABO O MACH DEPR	HLY SUI AN (.50 (.0 (.0 , MACH. .0 (.0 (.0 (.0 (.0 (.0 (.0 (.0	MARY FEB 0.50 0.0 INERY, 0.0 IR EM EN 0.0	OF RECE MAR 0.50 0.0 CVERHE 0.0 TS BY N 0.0	IPTS APR 0.0 0.0 0.0 AD, R: 0.0 ONTH 0.0 IABLE TOTA	AND EXPINARY 0.0 0.0 ISK, ANI 0.0 COSTS	33.1 11.6 D MAN/ 0.6 O.1	N JI B2 D. BO G. AGEMEN D O. L2 O.	0 T 0	0.0 8.75 7.29 0.12	3.44 0.33	0.0 0.0 0.0	0.0 0.0	0.0 0.0		1 1 /TIME	7.32 5.14 2.18 0.73
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE RACTOR(4)	UNITACRE ACRE LABOR, C	MONT O O APITAL O LABO O NACH DEPR 1.05	HLY SUI AN (.50 (.0 (.0 , MACH .0 (INERY)	MARY FEB 0.50 0.0 INERY, 0.0 IR EM EN 0.0 FIXEC SUR.	OF RECE MAR 0.50 0.0 CVERHE 0.0 TS BY M 0.0 AND VAR TAX 0.16	IPTS APR 0.0 0.0 0.0 AD, R:	O.O COSTS AL FIXE	33.1 11.6 D MAN/ 0.0 0.1	N JI B2 D. B0 G. AGEMEN D O. L2 O.	.0 .0 .0 .0	0.0 8.75 7.29 0.12	3.44 0.33	0.0 0.0 0.0 0.0 VARIA 2.4	0.0 0.0	0.0 0.0 0.0 INT.		1 1 1/TIME	7.32 5.14 2.18 0.73
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE RACTOR(4)	UNITACRE ACRE LABOR, CODE 4	MONT J O O APITAL O LABO O MACH DEPR 1-05 2-12	HLY SUI AN (.50 (.0 (.0 (.0 (.0 (.0 (.0 (.0 (MARY FEB 0.50 0.0 INERY, 0.0 IREMEN 0.0 FIXEC SUR. 0.06	OF RECE MAR 0.50 0.0 CVERHE 0.0 TS BY N 0.0 AND VAR TAX 0.16 0.26	IPTS APR 0.0 0.0 0.0 AD, R: 0.0 ONTH 0.0 IABLE TOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 COSTS: AL FIXE 1.27 2.48	33.1 11.6 D MAN/ 0.0 0.1 PER HO D REF 0.0	N JO B2 D AGEMEN D O L2 O DUR PAIR 172	. 0 . 0 . 0	0.0 8.75 7.29 0.12	0.0 4.58 3.44 0.33 LUB. 0.22	0.0 0.0 0.0 0.0 VARIA 2.4	0.0 0.0	1.00 0.0 0.0 0.0 INT. 1.06 1.57		1 1 7TIME 1.00	7.32 5.14 2.18 0.73
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE FRACTOR(+) SHEEP	UNITACRE ACRE LABOR, COOL. HR. COOL. 441.59	MONT J 0 0 APITAL 0 LABO 0 MACH DEPR 1.05 2.12 0.80	HLY SUI AN (.50 (.0 (.0 (.0 (.0 (.0 (.0 (.0 (HMARY D. 50 D. 0 I NERY, D. 0 IR EM EN D. 0 FIXEC SUR. .06 .09	OF RECE MAR 0.50 0.0 CVERHE 0.0 TS BY N 0.0 AND VAR TAX 0.16 0.20	IPTS APR 0.0 0.0 0.0 AD, R: 0.0 ONTH 0.0 IABLE TOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 COSTS: AL FIXE! 1.27 2.48	33.1 11.8 D MAN/ 0.0 0.1 PER HO D REII	N J0 82 D. 90 O. AGEMEN D O. 12 O. DUR PAIP 72 83	Full 1.4	7.29 0.12	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 VARIA 2.4 0.2	0.0 0.0 0.0 AL	1.00 0.0 0.0 0.0 INT. 1.06 1.57	0	1 1 7TIME 1.00 0.10	7.32 5.14 2.18 0.73
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES KETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE RACTOR(4) WEEP ROD MEEDER	UNITACRE ACRE LABOR, CODE 4 41 59 61	MONT J 0 0 AP IT AL 0 LABO 0 MACH DEPR 1.05 2.12 0.80	HLY SUIAN (an	MARY FEB 0.50 0.0 INERY, 0.0 IREMEN 0.0 FIXEC SUR. 0.06 .09	OF RECE MAR 0.50 0.50 CVERHE 0.0 TS 8Y N 0.0 AND VAR 0.16 0.26 0.21	IPTS AFR 0.0 0.0 0.0 AD, R: 0.0 ONTH 0.0 IABLE TOTA	0.0 0.0 0.0 ISK, ANI 0.0 0.0 COSTS: AL FIXE 1.27 2.48 0.93	33.4 11.6 D MAN/ 0.6 0.1	N J0 82 0. 80 0. AGEMEN 0 0. L2 0. DUR PAIR .72 .83	.0 .0 .0 .0 .0	0.0 8.75 7.29 0.12	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 VARIA 0.8 0.2	0.0 0.0 0.0 AL BBLE 4 3	1.00 0.0 0.0 0.0 INT. 1.06 1.57 0.60 1.24	0	1 /T IME 1.00).10).09).18	7.32 5.14 2.18 0.73
TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE TRACTOR(4) SHEEP	UNITACRE ACRE LABOR, CODE 4 41 59 61	MONT J 0 0 APITAL 0 LABO 0 MACH DEPR 1.05 2.12 0.80	HLY SUIAN (AND (AND (AND (AND (AND (AND (AND (A	HMARY D. 50 D. 0 I NERY, D. 0 IR EM EN D. 0 FIXEC SUR. .06 .09	OF RECE MAR 0.50 0.0 CVERHE 0.0 TS BY N 0.0 AND VAR TAX 0.16 0.20	IPTS AFR 0.0 0.0 0.0 AD, R: 0.0 ONTH 0.0 IABLE TOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 COSTS: AL FIXE! 1.27 2.48	33.4 11.6 D MAN/ 0.6 0.1	N J0 82 D. 90 O. AGEMEN D O. 12 O. DUR PAIP 72 83	Full 1.4	0.0 8.75 7.29 0.12	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 VARIA 2.4 0.2	0.0 0.0 0.0 AL BBLE 4 3	1.00 0.0 0.0 0.0 INT. 1.06 1.57	0	1 1 7TIME 1.00 0.10	7.32 5.14 2.18 0.73
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE FRACTORI41 SWEEP ROD WEEDER	UNITACRE ACRE LABOR, CODE 4 41 59 61	MACH DEPR 1.05 2.12 0.80 0.56	HLY SUIAN (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1.50 (1	HMARY FEB D. 50 D. 0 INERY, D. 0 IR EM EN D. 0 FIXEC SUR. 06 .09 .04	OF RECE MAR 0.50 CVERHE 0.0 TS BY N 0.0 AND VAR TAX 0.16 0.26 0.10	IPTS AFR 0.0 0.0 0.0 AD, R: 0.0 ONTH 0.0 IABLE TOTA	AND EXPI MAY 0.0 0.0 ISK, ANI 0.0 COSTS: AL FIXE 1.27 2.48 0.93 0.66	JUI 33.1 11.6 D MAN/	N J0 82 D. 83 D. 84 D. 85 D. 84 D. 85 D. 87 D. 87 D. 87 D. 87 D. 87 D. 88 D. 8 D.	Full 1.4	7.29 0.12 EL	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 VARIA 0.8 0.2	0.0 0.0 0.0 AL BBLE 4 3	1.00 0.0 0.0 0.0 INT. 1.06 1.57 0.60 1.24	0	1 /T IME 1.00).10).09).18	7.32 5.14 2.18 0.73
CATEGORY OTAL RECEIPTS OTAL EXPENSES LETURNS TO LAND, INNUAL CAPITAL MACHINERY LABOR MACHINE RACTOR(4) MEEP OD MEEDER	UNITACRIA ACRIA AC	HONT J O O APITAL O LABO O NACH DEPR 1.05 2.12 0.80 1.65	HLY SUI AN	HMARY FEB D.50 D.0 INERY, D.0 IR EM EN D.0 FIXEC SUG 6.09 6.04 6.07	OF RECE MAR 0-50 0-0 CVERHE 0-0 TS BY M 0-0 AND VAR TAX 0-16 0-10 0-21 0-07	IPTS AFR 0.0 0.0 0.0 AD, R: 0.0 ONTH 0.0 IABLE TOTA	0.0 0.0 0.0 ISK, ANI 0.0 0.0 COSTS: AL FIXE 1.27 2.48 0.93	JUI 33.1 11.6 D MAN/ O. (O. I PER HC O.	N J0 82 D. 83 D. 84 D. 85 D. 86 D. 87 D. 87 D. 88 D. 8 D.	FUI 1.4 0.0 0.0 0.0	7.29 0.12 EL	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 VARIA 0.8 0.2	0.0 0.0 0.0 AL BBLE 4 3	1.00 0.0 0.0 0.0 INT. 1.06 1.57 0.60 1.24	0	1 /T IME 1.00).10).09).18	7.32 5.14 2.18 0.73
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES NETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE RACTORIA WEEP OD MEEDER ONHOROUS APPLIC OPERATION WEEP	UNITAL ACREA	MONT J 0 0 APITAL 0 LABO 0 MACH DEPR 1.05 2.12 0.80 0.56	HLY SUI AN .50 (.0 C) NACH. .0 IN ERY IN .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	MMARY FEB 0.50 0.0 INERY, 0.0 IREMEN 0.0 FIXEC SUR. 0.0 0.0 ABOR HOURS	OF RECE MAR 0.50 0.0 CVERHE 0.0 TS BY M 0.0 AND WAR TAX 0.16 0.26 0.26 0.27 MACHINE HOURS	IPTS APR 0.0 0.0 0.0 AD, R: 0.0 ONTH 0.0 IABLE TOTA	AND EXPI MAY 0.0 0.0 0.0 ISK, ANI 0.0 0.0 COSTS: AL FIXE 1.27 2.48 0.93 0.66	JUI 33.1 11.6 D MAN/ O. (O. I PER HC O.	N JI 82 D. 82 D. AGEMEN 0 O. 12 O. DUR PAIR 172 83 -21 -44 -37 -21 -44 -37 -21 -44 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4	Full 1.4 0.6 0.6 0.6 0.6 Costs	7.29 0.12 EL	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 VARIA 0.8 0.2	0.0 0.0 0.0 AL BBLE 4 3	1.00 0.0 0.0 0.0 INT. 1.06 1.57 0.60 1.24	0	1 /T IME 1.00).10).09).18	7.32 5.14 2.18 0.73
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE RACTOR(4) WEEP ROU MEEDER RALTUROUS APPLIC OPERATION SWEEP ROD MEEDER	UNII ACRI ACRI LABOR, (DOL	MONT J O O APITAL O NACH DEPR 1.05 2.12 0.80 0.56 DATE AUG	HLY SUI AN .50 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	HARY FEB J. 50 J. 0 INERY, J.	OF RECE MAR 0.50 0.0 CVERHE 0.0 TS BY N 0.0 AND VAR 0.16 0.26 0.20 0.21 0.07 MACHINE HOURS	IPTS APR O-0 O-0 O-0 AD, R: O-0 ONTH O-0 IABLE TOT/	AND EXPI MAY 0.0 0.0 ISK, ANI 0.0 COSTS: 1.27 2.48 0.93 1.93 1.93 1.93	JUI 33.1 11.6 D MAN/ O. (O. I PER HC O.	N JI 82 D 82 D AGEMEN D DUR PAIR .72 .83 .21 .44 .37	FUI 10-10-10-10-10-10-10-10-10-10-10-10-10-1	7.29 0.12 EL	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 VARIA 0.8 0.2	0.0 0.0 0.0 AL BBLE 4 3	1.00 0.0 0.0 0.0 INT. 1.06 1.57 0.60	0	1 /T IME 1.00).10).09).18	7.32 5.14 2.18 0.73
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE FRACTORIA FRACTORIA ROBELL MOJFERT ANHYDROUS APPLIC	UNITAL ACREA	MONT J O O APITAL O NACH DEPR 1.05 2.12 0.80 0.56 DATE AUG	HLY SUI AN .50 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	HARY FEB J. 50 J. 0 INERY, J.	OF RECE MAR 0.50 0.0 CVERHE 0.0 TS BY M 0.0 AND WAR TAX 0.16 0.26 0.26 0.27 MACHINE HOURS	IPTS APR O-0 O-0 O-0 AD, R: O-0 ONTH O-0 IABLE TOT/	AND EXPI MAY 0.0 0.0 0.0 ISK, ANI 0.0 0.0 COSTS: AL FIXE 1.27 2.48 0.93 0.66	JUI 33.1 11.6 D MAN/ O. (O. I PER HC O.	N JI 82 D. 82 D. AGEMEN 0 O. 12 O. DUR PAIR 172 83 -21 -44 -37 -21 -44 -37 -21 -44 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4	FUI 10-10-10-10-10-10-10-10-10-10-10-10-10-1	7.29 0.12 EL	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 VARIA 0.8 0.2	0.0 0.0 0.0 AL BBLE 4 3	1.00 0.0 0.0 0.0 INT. 1.06 1.57 0.60	0	1 /T IME 1.00).10).09).18	7.32 5.14 2.18 0.73
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES KETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE RACTOR(4) WEEP RILL WO/FERT ANYUROUS APPLIC OPERATION WEEP ROD WEEDER	UNITACE ACRE ACRE ACRE ACRE ACRE ACRE ACRE A	MACH DEPR 1.05 2.12 Q.80 1.65 Q.56 DATE AUG SEP SEP SUM	HLY SUI AN .50 (.00 (MARY FEB 0.50 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OF RECE MAR 0.50 0.0 CVERHE 0.0 TS BY N 0.0 AND VAR TAX 0.16 0.26 0.20 0.21 0.07	IPTS APR 0.0 0.0 AD, R: 0.0 AD, R: 0.0 IABLE TOT/	AND EXPI MAY 0.0 0.0 ISK, ANI 0.0 COSTS: 1.27 2.48 0.93 1.93 1.93 1.93	JUI 33.1 11.6 D MAN/ O. (O. I PER HC O.	N JI 82 D 82 D AGEMEN D DUR PAIR .72 .83 .21 .44 .37	FUI 10-0 0-0 0-0 0-0 0-0 0-0 0-0	7.29 0.12 EL	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 VARIA 0.8 0.2	0.0 0.0 0.0 AL BBLE 4 3	1.00 0.0 0.0 0.0 INT. 1.06 1.57 0.60	0	1 /T IME 1.00).10).09).18	7.32 5.14 2.18 0.73

TABLE XXXVII

DRYLAND WHEAT, SANDY LOAM SOIL

CATEGORY	UNITS	PRICE	QUANTITY	VALUE
PRODUCTION:		- 4		
WHEAT	BU .	2.050	16.500 0.350	33. 82
GRAZ ING	AUMS.	10.000	0.350	3.50
TOTAL RECEIPTS				37.32
OPERATING INPUTS:				
WHEAT SEED	BU.	5.000	0.750 60.000	3.75
NITROGEN	LBS.	0.140	60.000	8. 40
CUSTOM COMBINE	ACRE	9.800	1.000	9.80
CUSTOM HAULING	BU.	0.100	1.000	1.65
the state of the s	ACRE			0. 78
TRACT REPAIR COST	ACRE			0.38
TRACTOR LUBE COST	ACRE			0. 12
	ACRE			0. 27
TOTAL OPERATING COST		<u> </u>		25.14
RETURNS TO LAND, LABOR, CAPITAL, MACHINERY, OVERHEAD, RISK, AND MANAGEMENT			•	12.10
UVERNEAU, KISK , AND PANAGEMENT				
CAPITAL COST:			10 700	1 07
ANNUAL OPERATING CAPITAL		0.100	10.732	1.07
TRACTOR INVESTMENT		0.100	5.550 5.954	0. 56
EQUIPMENT INVESTMENT		0.100	2.924	0.60
TOTAL INTEREST CHARGE				2. 22
RETURNS TO LAND, LABOR, MACHINERY,				
OVERHEAD, RISK AND MANAGEMENT				9 . 96
OWNERSHIP COST: (DEPRECIATION,				
TAXES, INSURANCE)				
TRACTOR	DQL.			0.66
E CU I PMENT	DOL.			
TOTAL CHNERSHIP COST				1. 59
RETURNS TO LAND, LABOR, OVERHEAD,				
RISK AND MANAGEMENT				8.37
LABCR COST:	•			
	HR.	3.000	0.574	
TOTAL LABOR COST				1.72
RETURNS TO LAND, OVERHEAD,				
RISK AND MANAGEMENT				6.65

PANHANDLE ENERGY BUDGETS

ENTERPRISE <u>16</u> AREA AND COUNTY <u>12</u> DETAIL <u>00</u> IRIG. LEVEL <u>0</u> LAND CLASS <u>8</u> GRAZING <u>3</u> MACH. COMP. <u>1</u> IRIG. SYSTEM <u>0</u> PRICE VECT <u>1</u> INDIV. NUMBER <u>0</u> ANNUAL CAPITAL MONTH: 6 DATE PRINTED: 03/05/75

TABLE XXXVII (Continued)

	1 Jan	2 FEB	3 MAR	APR	5 MAY	6 NUL	7 JUL	8 AUG	9 SEP	10 DCT	11 NOV	12 DEC	13 PRICE	14 WEIGHT	15 UNIT	16 ITEM	17 TYPE	18 CONT
INE				- 4											CODE			
PREDUCTION 1 WHEAT						ROFU		0.0	0.0	0.0	0.0		2.050	0.0		76.	•	٠.
2 GRAZING		0.0		0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.10	15.000	0.0	10.	89.	2.	0.
OPERATING INPUTS					RAT	E/UNIT						-	PRICE	NUMBER	UNIT		TYPE	CONT
11 WHEAT SEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	5.000	0.0		176.	з.	0.
12 NITROGEN	0.0	0.0	0.0		0.0	0.0	0.0	60.00	0.0	0.0	0.0	0.0	0.140	0.0		211.	3.	0.
13 CUSTON COMBINE		- 0.0	0.0	0.0	0.0	1.00	0.0	.0.0	0.0	0.0	0.0	0.0	9.800	0.0		305.	3.	٥.
4 CUSTOM HAULING	0.0	0.0	0.0	0.0	0.0	16.50	0.0	0.0	0.0	0.0	0.0	. 0.0	0.100	0.0	2.	306.	3.	0.
MACHINERY REQUIRE	MENTS					T IMES	OVER						XXXXX	XXXXX	POWER		TYPE	CONT
38 SWEEP	0.0	0.0	0.0	0.0	0.0	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	4.	41.	4-	0.
39 ROD WEEDER		0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00		0.0	0.0	0.0	0.0	4.	59.	4.	õ.
O CRILL WO/FERT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.	61.	4.	. 0.
1 ANHYDROUS APPL	10 0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	73.	4-	0.
PANHAND	LE ENERGI	BUDGE	TS											MENT CO			1	
***NO COMPLEMENT	CHANGES I		EN STO	RED W		Ś BUDG						-						
CATEGORY	UNIT	HTHOM	EN STO	RED W	ITH THE	S BUDG	ND EX	PENSES JUI	N J	uL	AUG	SEP	001	NOV	DEC			TAL
CATEGORY TOTAL RECEIPTS	UNIT ACRE	MONTH JA 0.	EN STO	MARY (EB	ITH THI OF RECE MAR 0.50	S BUDG	ND EX	PENSES JUI 33.4	1 JU	. 0	0.0	0.0	0.0	1.00	1.00		37	7.32
CATEGORY OTAL RECEIPTS OTAL EXPENSES	UNIT ACRE ACRE	MONTH JA 0.0	EN STO	MARY (EB).50	F RECE	S BUDG	ND EX MAY 0.0	PENSES JUI 33.4	1 JU	0							31	
CATEGORY FOTAL RECEIPTS FOTAL EXPENSES RETURNS TO LAND,	UNIT ACRE ACRE	MONTH JA 0.0	EN STO	MARY (EB).50	F RECE	S BUDG	ND EX MAY 0.0	PENSES JUI 33.8 11.8 ND MANA	12 0. 30 0. AGEMENT	0	0.0	0.0	0.0	1.00	1.00		31 21 12	7.32 5.14
CATEGORY FOTAL RECEIPTS FOTAL EXPENSES RETURNS TO LAND.	UNIT ACRE ACRE LABOR, C	MONTH AL O. O. AP IT AL.	EN STORES	MARY (EB).50).0 (NERY,	TH THI F RECE MAR C.50 O.0 OVERHE	S BUDG IPTS A APR 0.0 0.0 AD, RI	ND EX MAY 0.0 0.0 SK, A	PENSES JUI 33.1 11.1 ND HAN/	N JU 32 0. 30 G. NGEMENT	0 0 T	0.0 8.75	0.0 4.58	0.0	1.00	0.0		3 2! 1:	7.32 5.14 2.18
CATEGORY TOTAL EXPENSES RETURNS TO LAND,	UNIT ACRE ACRE LABOR, CA	MONTH JA O. O. AP IT AL. O. LABUR	EN STO	MARY (MARY (TH THI	S BUDG IPTS A APR 0.0 0.0 AD. RI 0.0 ONTH	ND EX MAY 0.0 0.0 SK, A	PENSES JUI 33-4 11-4 ND MAN/	N JU 12 0. 30 G. AGEMENT	.0 r	0.0 8.75 7.29	0.0 4.58 3.44	0.0	0.0	0.0		3 2! 1:	7.32 5.14 2.18
CATEGORY OTAL EXPENSES OTAL EXPENSES LETURNS TO LAND. ANNUAL CAPITAL	UNIT ACRE ACRE LABOR, CA	MONTH JA O. O. AP IT AL. O. LABUR	EN STO	MARY (MARY (TH THI DF RECE MAR 0.50 0.0 OVERHE 0.0 TS BY M 0.0 AND VAR	S BUDG IPTS A APR 0.0 0.0 AD. RI 0.0 ONTH	ND EX MAY 0.0 SK, A 0.0	PENSES JUI 33-1 11-4 ND HANA 0-0	N JU 12 0. 30 G. AGEMENT	.0 r	7.29 0.12	0.0 4.58 3.44	0.0	0.0 0.0	0.0	не/	3 2! 1:	7.32 5.14 2.18
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE	UNIT ACRE ACRE LABOR, C/ DOL.	MONTH JA O. AP IT AL. LABUR O. MACHI	EN STO	MARY (MARY (TH THI DF RECE MAR 0.50 0.0 OVERHE 0.0 TS BY M 0.0 AND VAR	S BUDG IPTS A APR 0.0 0.0 AD. RI 0.0 ONTH 0.0 IABLE TOTA	ND EX MAY 0.0 SK, A 0.0	PENSES JUP 33.8 11.6 ND MANA 0.0 0.0	N JU 12 0. 30 G. AGEMENT D 0.	.01	7.29 0.12	0.0 4.58 3.44	0.0 0.0 0.0	0.0 0.0	0.0		10	7.32
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE TRACTOR(4) WHEEP	UNIT ACRE ACRE LABOR, C/ DOL. HR.	MONTH JA O. O. PITAL. LABUR O. MACHI DEPR 1.05 2.12	EEN STORMEN SUMMEN SO O O O O O O O O O O O O O O O O O O	MARY (FEB). 50 0 (NERY, D. 0). 0 (NERY, D	ITH THI DF RECE MAR C.50 O.0 OVERHE O.0 TS BY M O.0	S BUDG IPTS A APR 0.0 0.0 AD. RI 0.0 ONTH 0.0 IABLE TOTA	ND EX MAY 0.0 0.0 SK, A 0.0	PENSES JUI 33.1 11.1 ND MAN 0.0 PER HC ED REE 0.0	N JUNE OF THE PAIR	.0 .0	7.29 0.12	0.0 4.58 3.44 0.33	0.0 0.0 0.0 TOT VARIA	0.0 0.0 0.0	0.0 0.0	1	37 2! 10	7.32
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE FRACTOR(4) WEEP TOD WEEDER	UNIT ACRE ACRE LABOR, C/	MONTH JA O. O. AP ITAL. LABUR O. MACHI DEPR 1.05 2-12 0.80	EN STOREN	MARY (FEB 50) 0 NERY, 0 0 IXED UR 06 09 04	ITH THI DF RECE MAR C.50 O.0 OVERHE O.0 TS BY M O.0 AND VAR TAX O.14 C.26 O.10	S BUDG IPTS A APR 0.0 0.0 AD. RI 0.0 ONTH 0.0 IABLE TOTA	ND EX MAY 0.0 SK. A 0.0 COSTS L FIX 1.27	PENSES JUI 33-4 11-4 ND HANN D	N JUR 32 0.30 G. AGEMENT D 0. 12 0. 12 0. 14 7. 17 8. 18 3. 21	.01 .01	7.29 0.12	0.0 4.58 3.44 0.33	0.0 0.0 0.0 TOT VARIA 2.4 0.8	0.0 0.0 0.0 AL BLE 4	0.0 0.0 0.0 1Nf.	1	10 21 12 10 10	7.32 5.14 2.18
CATEGORY OTAL RECEIPTS OTAL EXPENSES LETURNS TO LAND, INNUAL CAPITAL MACHINERY LABOR MACHINE RACTOR(4) MEEP OO WEEDER	UNIT ACRE ACRE LABOR, C/DOL. HR. CODE 4 41 59 61	MONTH JA O. O. PITAL, O. LABUR O. MACHI DEPR 1.05 2.12 O.80 0.80 1.65	EEN STORMEN FOR ST	MARY (FEB 50 50 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60	TH THI DF RECE MAR C.50 0.0 OVERHE O.0 TS BY M O.0 AND VAR TAX 0.16 C.26 O.10 O.21	S BUDG IPTS A APR 0.0 0.0 AO. RI 0.0 ONTH 0.0	ND EX MAY 0.0 0.0 SK, A 0.0 0.0 COSTS L FIX 1.27 2.48 0.93 1.93	PENSES JUI 33-4 11-4 ND MAN/ 0-4 0-4 0-4 0-4 0-4 0-4 0-4 0-4 0-4 0-4	N JU 32 0. 30 G. AGEMENT DUR PAIR 72 83 21	FUI 1.4 0.0	7.29 0.12	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 VARIA 2.4 0.8 0.2	0.0 0.0 0.0 AL RLE	1.00 0.0 0.0 0.0 INf. 1.06 1.57 0.60 1.24	0	10 10 11 10 10 10 10 10 10 10 10 10 10 1	7.32
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE TRACTOR(4) WHEEP ROD WEEDER STILL WOFFERT	UNIT ACRE ACRE LABOR, C/DOL. HR. CODE 4 41 59 61	MONTH JA O. O. AP ITAL. LABUR O. MACHI DEPR 1.05 2-12 0.80	EEN STORMEN FOR ST	MARY (FEB 50) 0 NERY, 0 0 IXED UR 06 09 04	ITH THI DF RECE MAR C.50 O.0 OVERHE O.0 TS BY M O.0 AND VAR TAX O.14 C.26 O.10	S BUDG IPTS A APR 0.0 0.0 AO. RI 0.0 ONTH 0.0	0.00 SK, A 0.00 COSTS L FIX 1.27 2.48	PENSES JUI 33-4 11-4 ND MAN/ 0-4 0-4 0-4 0-4 0-4 0-4 0-4 0-4 0-4 0-4	N JUR 32 0.30 G. AGEMENT D 0. 12 0. 12 0. 14 7. 17 8. 18 3. 21	.0 -0 -0 -0 -0 -0 -0 -0	7.29 0.12	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 TOT VARIA 2.4 0.8	0.0 0.0 0.0 AL RLE	1.00 0.0 0.0 0.0 1.00 1.06 1.57	0	16 16 17 IME 1.00 0.10	7.32 5.14 2.18
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE FRACTOR(4) WHEEP ROD WEEDER NHYDROUS APPLIC	UNIT ACRE ACRE LABOR. C./ DOL. HR. CODE 4 41 59 61 73	MONTH JA O. O. PITAL, O. LABUR O. MACHI DEPR 1.05 2.12 0.80 1.65 0.56	EEN STO	RED W HARY (FEB).50 0.50 NERY, 0.0 REHEN .0 1XED UR. 006 09 04 07 03	O.O OVERHE O.O OVERHE	S BUDG IPTS A APR O.O O.O O.O AO. RI O.O O.O IABLE TOTA	O.0 O.0 O.0 O.0 O.0 COSTS L FIX 1.27 2.48 O.93 O.66	PENSES JUI 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.	N JUN 20 0.30 G. 30 G. 3	.01 .01 .01 .01 .01 .01 .01 .01 .01	7.29 0.12	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 VARIA 2.4 0.8 0.2	0.0 0.0 0.0 AL RLE	1.00 0.0 0.0 0.0 INf. 1.06 1.57 0.60 1.24	0	10 10 11 10 10 10 10 10 10 10 10 10 10 1	7.32
CATEGORY OTAL RECEIPTS OTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE RACTOR(4) WEEP OOD WEEDER RILL WOFFERT	UNIT ACRE ACRE LABOR. C./ DOL. HR. CODE 4 41 59 61 73	MONTH JA O. O. D. PITAL. LABUR O. MACHI DEPR 1.05 2.12 O.80 1.65 O.56	EEN STO	RED W HARY (FEB).50 0.50 NERY, 0.0 REHEN .0 1XED UR. 006 09 04 07 03	O.O OVERHE O.O OVERHE	S BUDG IPTS A APR O.O O.O O.O AO. RI O.O O.O IABLE TOTA	O.0 O.0 O.0 O.0 O.0 COSTS L FIX 1.27 2.48 O.93 O.66	PENSES JUI 33.4 11.4 ND MAN/	N JUN 20 0.30 G. 30 G. 3	.01 .01 .01 .01 .01 .01 .01 .01 .01	7.29 0.12	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 VARIA 2.4 0.8 0.2	0.0 0.0 0.0 AL RLE	1.00 0.0 0.0 0.0 INf. 1.06 1.57 0.60 1.24	0	10 10 11 10 10 10 10 10 10 10 10 10 10 1	7.32 5.14 2.18
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE TRACTOR(4) SWEEP ROD WEEDER NHYDROUS APPLIC OPERATION SWEEP	UNIT ACRE LABOR, CARE LABOR, C	MONTH JA 0. 0. 0. PITAL. 0. LABUR 0. MACHI DEPR 1.05 2.12 0.80 0.56	EEN STO	MARY (FEB NO NERV) O O O O O O O O O O O O O O O O O O O	O-0 TS BY M O-2 AND VAR TAX O-16 O-07 MACHINE HOURS	S BUDG IPTS A APR 0.0 O.0 OAD, RI O.0 ONTH O.0 IABLE TOTA FUEL, REPAI	ND EX MAY 0.0 0.0 SK, A 0.0 0.0 COSTS L FIY 2.48 0.93 1.27 2.48 0.93 0.66 OIL,LR R PER	PENSES JUI 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.	N JUN 200 300 General DO O GENERAL DO O GENERAL DUR PAIR 722 83 21 144 37	FUI 1.4 0.0 0.0 0.0 0.0 COSTS	7.29 0.12	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 VARIA 2.4 0.8 0.2	0.0 0.0 0.0 AL RLE	1.00 0.0 0.0 0.0 INf. 1.06 1.57 0.60 1.24	0	10 10 11 10 10 10 10 10 10 10 10 10 10 1	7.32
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE FACTOR(4) TOTAL TOTAL OPERATION SWEEP ROD WEEDER	UNIT AGRE LABOR. C/ DOL. HR. CODE 41 59 61 73 ITEM NO. C	MONTH JA 0. 0. 0. PITAL. LABUR 0. MACHI DEPR 1.05 2.12 0.80 0.56 TABLE 0.56	EEN STO	IMARY (FEB NO. 50 NERY, O. 0 NERY	TH THI DF RECE HAR C.50 0.0 OVERHE 0.0 TS BY M 0.16 0.21 0.21 0.07 MACHINE HOURS 0.101 0.094	S BUDG IPTS A APR 0.0 0.0 O.0 AD. RI O.0 ONTH 0.0 IABLE TOTA REPAI	ND EX MAY 0.00 0.00 SK, A 0.00 0.00 COSTS L FIX 1.93 0.66 0.93	PENSES JUI 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.	0.67 0.67 0.67	FUI 10-0 0-0 0-0 0-0 0-0	7.29 0.12	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 VARIA 2.4 0.8 0.2	0.0 0.0 0.0 AL RLE	1.00 0.0 0.0 0.0 INf. 1.06 1.57 0.60 1.24	0	10 10 11 10 10 10 10 10 10 10 10 10 10 1	7.32
CATEGORY OTAL RECEIPTS OTAL RECEIPTS OTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE RACTOR(4) WEEP ROD WEEDER RILL WO/FERT NHYDROUS APPLIC OPERATION SWEEP ROD WEEDER ROTTOR OFFERT	UNIT ACRE LABOR, CACRE LABOR, C	MONTH JA 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	EEN STO	IMARY 1 1 2 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	TH THI F RECE HAR C.50 0.0 OVERHE O.0 AND VAR TAX O.16 O.20 O.21 O.07 MACHINE HOURS O.101 O.094 O.179	S BUDG IPTS A APR 0.0 O.0 OAD. RI O.0 ONTH O.0 IABLE TOTA FUEL. REPAI	ND EX MAY 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	PENSES JUI 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.	N JUN 200 200 200 200 200 200 200 200 200 20	.01 .01 .01 .01 .01 .01 .02 .03 .03 .03 .03 .03	7.29 0.12	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 VARIA 2.4 0.8 0.2	0.0 0.0 0.0 AL RLE	1.00 0.0 0.0 0.0 INf. 1.06 1.57 0.60 1.24	0	10 10 11 10 10 10 10 10 10 10 10 10 10 1	7.32
CATEGORY OTAL RECEIPTS OTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE FRACTOR(4) NEEP NOU WEEDER NHYDROUS APPLIC OPERATION WEEP ROD WEEDER	UNIT ACRE LABOR, CACRE LABOR, C	MONTH JA 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	EEN STO	IRED W MARY (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888) 1.50 (1888)	TH THI F RECE HAR C.50 0.0 OVERHE O.0 AND VAR TAX O.16 O.20 O.21 O.07 MACHINE HOURS O.101 O.094 O.179	S BUDG IPTS A APR 0.0 0.0 AD. RI 0.0 ONTH 0.0 IABLE TOTA FUEL. REPAI	ND EX MAY 0.00 0.00 SK, A 0.00 0.00 COSTS L FIX 1.93 0.66 0.93	PENSES JUI 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.	0.67 0.67 0.67	-01 -01 -01 -01 -01 -02 -03 -03 -03 -03 -03 -03 -03 -03 -03 -03	7.29 0.12	3.44 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 VARIA 2.4 0.8 0.2	0.0 0.0 0.0 AL RLE	1.00 0.0 0.0 0.0 INf. 1.06 1.57 0.60 1.24	0	10 10 11 10 10 10 10 10 10 10 10 10 10 1	7.32

TABLE XXXVIII

DRYLAND GRAIN SORGHUM, CLAY LOAM SOIL

CATEGORY	UNITS	PRICE	QUANTITY	VALUE
PRODUCT IGN:				r
MILC	CWT.	2, 340	11.000	25. 74
MILO STUBBLE	AUNS	6.000	0.750	4.50
TOTAL RECEIPTS				30.24
OPERATING INPUTS:				
MILO SEED	LB S.	0.270	4.000	1.08
CUSTOM COMBINE	ACRE	10.000	1.000 11.000	10.00
CUSTOM HAULING	CWT.	0.100	11.000	1.10
TRACTOR FUEL COST	ACRE			1. 62
TRACT REPAIR COST	ACRE			0.79
TRACTOR LUBE COST	ACRE			0.24
EQUIP REPAIR COST	ACRE			0.37
TOTAL OPERATING COST				15.21
RETURNS TO LAND, LABOR, CAPITAL, MACHINE	 RY •			
OVERHEAD, RISK, AND MANAGEMENT	•			15.03
CAPITAL COST:				
ANNUAL OPERATING CAPITAL		0.100	1.626	0.16
TRACTOR INVESTMENT		0.100	11.563	1. 16
ECUIPMENT INVESTMENT		0.100	7.957	0.80
TCTAL INTEREST CHARGE				2.11
RETURNS TO LAND, LABOR, MACHINERY,				,
OVERHEAD, RISK AND MANAGEMENT				12.92
OWNERSHIP COST: (DEPRECIATION,				,,,
TAXES, INSURANCE)				
TRACTOR	DOL.			1.36
EQUIPMENT	DOL.			1.26
TOTAL CHNEPSHIP COST				2.65
RETURNS TO LAND, LABOR, OVERHEAD,				
RISK AND MANAGEMENT				10. 27
LABCE COST:				
MACHINERY LABOR	, HR.	3.000	1.195	
TOTAL LABOR COST				3.59
RETURNS TO LAND, OVERHEAD,				
RISK AND MANAGEMENT				6.69

PANHANCLE ENERGY BUDGETS

ENTERPRISE 73 AREA AND COUNTY 10 DETAIL 00 IRIG. LEVEL 0 LAND CLASS 5 GRAZING 0 MACH. CCMP. 1 IRIG. SYSTEM 0 PRICE VECT 1 INDIV. NUMBER 1 ANNUAL CAPITAL MONTH:10 DATE PRINTED: 03/05/75

TABLE XXXVIII (Continued)

	1 JAN	2 FEB	HAR	4 APR	5 May	6 NUL	7 JUL	8 Qua	9 S E P	10 OCT	11 NOV	12 DEC	13 PRICE	14 WEIGHT	15 UNIT	16 TTEM	17 TYPE	18 CONT
INE PRODUCTION		,,		A		ROFL						520	******			CODE		
1 MILO	.0.0	0.0	0.0	0.0	0.0	``o.o``	0.0	0.0	0.0	11.00	0.0	0.0	2.340	0.0	16.	73.	2.	0.
2 MILO STUBBLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25			6.000	0.0	10.	157.	2.	0.
PERATING INPUIS					RAT	E/UNIT							PRICE	NUMBER	UNIT		TYPE	CONT
L1 MILO SEED	0.0	0.0	0.0	0.0	0.0	4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.270	0.0		173.	3.	0.
L2 CUSTOM COMBINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	10.000	0.0	7.	305.	3.	0.
3 CUSTOM HAULING			0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.00	0.0	0.0	0.100	0.0	16.	306.	з.	٥.
ACHINERY REQUIRE	EMENTS					TIMES	OVER					5	XXXXX	XXXXX	POWER		TYPE	CONT
38 CFFSET DISK	0.0	0.0	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		37.	4.	0.
39 CHISEL	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	42.	4.	ō.
O OFFSET DISK	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	37.	4.	Ò.
1 CULTIBEODER PI	.NT 0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	67.	4.	٥.
2 ROW CULTIVATOR		6. 0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	45.	4.	٥.
PARHANI	DLE ENERG		ETS			•								NERY CO			1	
	CHARGES	MONT			OF RECE			ENSES			····							
CATEGORY	UNIT	THOM	HLY SUP	MARY E8	OF RECE	IPTS A	ND EXP	JUE			AUG	SEP	OC T	NOV	DEC			OTAL
CATEGORY TOTAL RECEIPTS	UNIT	THOM J O	HLY SUP	MARY E8	DF RECE	IPTS A APR 0.0	ND EXP	JUE	Ó	•0	0.0	0.0	27.24	3.00	0.0		31	0.24
CATEGORY OTAL RECEIPTS OTAL EXPENSES	UNIT AGRE AGRE	TAON L O	HLY SUP	MARY E6). 0	DF RECE MAR 0.0 1.00	IPTS A APR 0.0 0.40	MAY 0.0	JU1 0 • 0 2 • 0	1 0	.70							1	0.24 5.21
CATEGORY OTAL RECEIPTS OTAL EXPENSES	UNIT AGRE AGRE	TAON L O	HLY SUP	MARY E6). 0	DF RECE MAR 0.0 1.00	IPTS A APR 0.0 0.40	MAY 0.0	JU1 0 • 0 2 • 0	1 0	.70	0.0	0.0	27.24	3.00	0.0		1	0.24
CATEGORY OTAL RECEIPTS OTAL EXPENSES RETURNS TO LAND,	UNIT AGRE AGRE	MONT J O O AP IT AL	HLY SUP AN F • 0 C • 0 C • MACH	MARY E6). 0	DF RECE MAR 0.0 1.00	IPTS A APR 0.0 0.40	MAY 0.0	JU1 0 • 0 2 • 0	DEMEN	.0 .70 T	0.0	0.0	27.24	3.00	0.0		31 1	0.24 5.21
CATEGORY TOTAL RECEIPTS OTAL EXPENSES RETURNS TO LAND,	UNIT ACRE ACRE LABOR, C	MONT J O O AP IT AL O LABO	HLY SUM AN 6 .0 C .0 C . MACH!	MARY FEB 0.0 0.0 INERY, 0.0	OF RECE MAR '0.0 1.00 OVERHE 0.58	IPTS A APR 0.0 0.40 AD, RI 0.20	MAY 0.0 0.0 SK. AN	JUI 0.0 2.0 D MANA 0.6	GEMEN	.70 T	0.0	0.0	0.0	3.00 0.0 0.0	0.0		3 1 1	0.24 5.21 5.03
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND,	UNIT AGRE ACRE LABOR, C	MONT J O O AP IT AL O LABO	HLY SUM AN 6 .0 C .0 C . MACH!	MARY FEB 0.0 0.0 INERY,	DF RECE MAR '0.0 1.00 OVERHE	IPTS A APR 0.0 0.40 AD, RI	MAY 0.0 0.0 SK, AN	JUN 0.0 2.0 D HANA	GEMEN	.70 T	0.0	0.0	27.24	3.00 0.0	0.0		3 1 1	0.24 5.21 5.03
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR	UNIT AGRE ACR E LABOR, C	MONT O O AP IT AL O LABO O MACH	HLY SUM AN F .O C .O C .O C .O C R REQUI	MARY FEB 0. 0 0. 0 INERY, 0. 0	OF RECE MAR '0.0 1.00 OVERHE G.58 TS BY M G.41	IPTS A APR 0.0 0.40 AD, RI 0.20 ONTH 0.16	O.O O.O O.O O.O O.O COSTS	O.6	GEMEN 7 O	.0 .70 T	0.0	0.0	0.9 0.0	0.0 0.0	0.0		31	0.24 5.21 5.03 1.63
CATEGORY OTAL RECEIPTS OTAL EXPENSES IETURNS TO LAND, INNUAL CAPITAL IACHINERY LABOR MACHINE	UNIT AGRE ACR E LABOR, C. DOL.	MONT O O AP IT AL O LABO O MACH	HLY SUM AN F • 0 C • 0 C • MACH! • 0 C INERY F	IMARY FEB 0.0 0.0 INERY, 0.0 REMEN 0.0	OF RECE VO.0 1.00 OVERHE G.58 TS BY M G.41 AND VAR	IPTS A APR 0.0 0.40 AD, RI 0.20 UNTH 0.16 IABLE TOTA	MAY 0.0 0.0 SK. AN 0.0 COSTS	O.6 O.3 PER HC	OD OF OR OTHER OF OTHER OF OTHER OTH	.0 .70 T	0.0 0.0	0.0 0.0 0.0	0.0 0.0	3.00 0.0 0.0	0.0 0.0		31 1 1 1 7 T I M E	0.24 5.21 5.03 1.63
CATEGON COTAL EXCEPTS COTAL EXPENSES CETURNS TO LAND, ANNUAL CAPITAL CACHINERY LABOR MACHINE RACTOR(4)	UNIT ACRE ACRE LABOR, C.	MONT J O O AP 1T AL O LABO O MACH DEPR 1.05	HLY SUM AN F .0 C .0 C .0 MACH!	IMARY FEB 0.0 INERY, 0.0 REMEN 0.0 IXED UR.	OF RECE , MAR , 0.0 1.00 OVERHE G.58 TS BY M G.41 AND VAR TAX O.16	IPTS A APR 0.0 0.40 AD, RI 0.20 UNTH 0.16 IABLE TOTA	MAY 0.0 0.0 (SK. AN 0.0 COSTS LEFIXE 1.27	JUN 0.0 2.0 0.6 0.2 PER HC D REP	GEMEN 7 O UR AIR 72	.0 .70 T	0.0	0.0 0.0 0.0	0.0 0.0 TOT VARIA 2.4	0.0 0.0 0.0	0.0 0.0 0.0	1	7T IME	0.24 5.21 5.03 1.63
CATEGORY TOTAL RECEIPTS OTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL HACHINERY LABOR MACHINE (RACTOR(4)) FFSET DISK	UNIT ACRE ACRE LABOR, C. DOL.	MONT O AP 1T AL O LABO MACH DEPR 1.05	HLY SUM AN F .O C .O C .O C R REQUI .O C INERY F INS	IMARY FE8 0.0 0.0 (NERY, 0.0 REMEN 0.0 IXED 0.0 0.7	DF RECE "0.0 1.00 0VERHE 0.58 TS BY M 0.41 AND VAR TAX 0.16 0.21	IPTS A APR 0.0 0.40 AD, RI 0.20 ONTH 0.16 IABLE TOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 COSTS LFIXE 1.27	JUN 0.0 2.0 D MANA 0.6 0.3 PER HOD D REP 0.0	01 0 GEMEN 7 0 14 0 UR AIR 72	.0 .70 T	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 TOT VARIA 2.4	0.0 0.0 0.0 AL BLE	0.0 0.0 0.0 1NT. 1.06 1.24	1	7T IME	0.24 5.21 5.03 1.63
CATEGORY TOTAL EXPENSES TOTAL EXPENSES TOTAL EXPENSES TOTAL EXPENSES TOTAL EXPENSES TOTAL EXPENSES TABLE TAB	UNIT AGRE ACR E LABOR, C. DOL. HR. CCDE 4 37 42	MONT J 0 0 AP IT AL 0 LABO 0 MACH DEPR 1.05	HLY SUM AN F .0 C .0 C . MACH! .0 C INERY F INS	IMARY FEB 0.0 0.0 IN ERY, 0.0 REMEN 0.0 IXED GUR. 0.0 0.7	OF RECE MAR 70.0 1.00 OVERHE 	IPTS A APR 0.0 0.40 AD, RI 0.20 ONTH 0.16 IABLE TOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 COSTS L FIXE 1.27 0.61	O.S PER HOD O.S O.S	01 0 GEMEN 7 0 14 0 UR AIR 72 43	.0 .70 T	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 TOT VARIA 2.4 0.1	0.0 0.0 0.0 AL	0.0 0.0 0.0 1NT. 1.06 1.24 0.39	0	7TIME	0.24 5.21 5.03 1.63
TOTAL RECEIPTS OTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE (RACTOR(4) DIFFSET OISK HISEL DIFFSET OISK	UNIT ACRE ACRE LABOR, C. DOL. HR. CCDE 4 37 42 37	MONT J O O O AP IT AL O LABO O MACH DEPR 1.05 1.66	HLY SUM AN F O C O C O MACH!	IMARY FEB 0.0 0.0 INERY, REMEN 0.0 IXED UR. 0.6 0.7	DF RECE MAR 0.0 1.00 OVERHE 0.58 TS BY M 0.41 AND VAR TAX 0.16 0.21 0.06 0.21	IPTS A APR 0.0 0.40 AD, RI 0.20 ONTH 0.16	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JUN 0.00 2.00 MANA O.60 O.30 PER HOO O.00 O.00 O.00 O.00 O.00 O.00 O.00	01 0 GEMEN -7 0 -7 0 	.0 .70 T	0.0 0.0 0.0	0.0 0.0 0.0 0.0 LUB. 0.22 0.0 0.0	0.0 0.0 TOT VARIA 2.4 0.1 0.4	3.00 0.0 0.0 0.0 AL BBLE 4.3	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24	0	7TIME 1.00 0.13 0.21	0.24 5.21 5.03 1.63
GATEGORY OTAL RECEIPTS OTAL EXPENSES LETURNS TO LAND, INNUAL CAPITAL MACHINERY LABOR MACHINE RACTOR(4) FFSET DISK LULTIBEDDER PLNT	UNIT ACRE ACRE LABOR, C. DOL. HR. CCDE 4 37 42 37 67	MONT J O O AP IT AL O LABO O MACH DEPR 1.05 1.66 O.52 1.56 1.24	HLY SUM AN F .0 C .0 C .0 C .0 C R REQUI .0 C INERY F INS 0.0	IMARY FEB 0.0 0.0 INERY, 0.0 REMEN 0.0 IXED 00 00 00 00 00 00 00 00 00 00 00 00 00	DF RECE MAR '0.0 1.00 OVERHE 0.58 TS BY M 0.41 AND VAR TAX 0.16 0.21 0.06 0.21	IPTS A APR 0.0 0.40 AD, RI 0.20 ONTH 0.16 IABLE TOTA	0.0 0.0 CGSTS.L. FIXE 1.27 1.94 0.61 1.42	O.6 O.6 O.8 PER HOO O.0	01 0 GEMEN -7 0 UR AIR 72 43 14 43 77	.0 .70 T .17 .29 FUE 1.4 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.22 0.0 0.0 0.0	0.9 0.0 TOT VARIA 0.4 0.1 0.4 0.7	3.00 0.0 0.0 0.0 AL BBLE 4.3 4.3	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24 0.82	0	7TIME 1.00 0.13 0.21	0.24 5.21 5.03 1.63
CATEGORY TOTAL EXPENSES FOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL HACHINERY LABOR MACHINE (RACTOR(4) JEFSET DISK LUTTIBEDOER PLNT	UNIT ACRE ACRE LABOR, C. DOL. HR. CCDE 4 37 42 37	MONT J O O O AP IT AL O LABO O MACH DEPR 1.05 1.66	HLY SUM AN F .0 C .0 C .0 C .0 C R REQUI .0 C INERY F INS 0.0	IMARY FEB 0.0 0.0 INERY, REMEN 0.0 IXED UR. 0.6 0.7	DF RECE MAR 0.0 1.00 OVERHE 0.58 TS BY M 0.41 AND VAR TAX 0.16 0.21 0.06 0.21	IPTS A APR 0.0 0.40 AD, RI 0.20 ONTH 0.16 IABLE TOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	O.6 O.6 O.8 PER HOO O.0	01 0 GEMEN -7 0 -7 0 	.0 .70 T	0.0 0.0 0.0	0.0 0.0 0.0 0.0 LUB. 0.22 0.0 0.0	0.0 0.0 TOT VARIA 2.4 0.1 0.4	3.00 0.0 0.0 0.0 AL BBLE 4.3 4.3	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24	0	7TIME 1.00 0.13 0.21	0.24 5.21 5.03 1.63
GATEGORY OTAL EXPENSES FOTAL EXPENSE	UNIT ACRE ACRE LABOR, C. DOL. HR. CCDE 4 37 42 37 67 67	MONT. O 0 AP IT AL O LABO 0 MACH DEPR 1.05 1.66 0.52 1.66 1.24 0.60	HLY SUMAN SOLUTION OF THE STATE	IMARY FE8 0.0 0.0 INERY, 0.0 EXED UR. 0.0 0.7 0.0 0.7	O-58 TS BY M O-41 AND VAR TAX O-16 O-21 O-07	IPTS A APR 0.0 0.40 AD, RI 0.20 ONTH 0.16 IABLE TOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JUN 0.0 2.0 2.0 D MANA O.6 CO.5 D PER HCC D REP CO. O. O	01 0 GEMEN 77 0 14 0 UR AIR 72 43 14 43 77	.17 .17 .17 .29	0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.22 0.0 0.0 0.0	0.9 0.0 TOT VARIA 0.4 0.1 0.4 0.7	3.00 0.0 0.0 0.0 AL BBLE 4.3 4.3	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24 0.82	0	7TIME 1.00 0.13 0.21	0.24 5.21 5.03 1.63
CATEGORY TOTAL EXPENSES FOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL HACHINERY LABOR MACHINE (RACTOR(4) JEFSET DISK LUTTIBEDOER PLNT	UNIT ACRE ACRE ACRE LABOR, C. DOL. HR. CCDE 4 4 7 42 37 42 45 51 11EM	MONT J 0 0 AP 1T AL 0 LABOO MACH DEPR 1.05 1.66 0.52 1.66 1.24 0.60	HLY SUPAN SU	IMARY FEB 6.0 0.0 IN ERY 0.0 REMEN 0.0 IXED 0.0 0.0 0.0 IXED 0.0 0.0 0.0 IXED 0.0 0.0 IXED 0.0 0.0 IXED 0.0 IXE	DF RECE MAR '0.0 1.00 OVERHE 0.58 TS BY M 0.41 AND VAR TAX 0.16 0.21 0.06 0.21	IPTS A APR 0.0 0.40 AD, RI 0.20 ONTH 0.16 IABLE TOTA	0.0 0.0 COSTS. FIXE 1.27 1.94 1.42 0.70	JUN 0.0 2.0 2.0 D HANA 0.6 0.2 PER HCD 0.0 0.0	01 0 GEMEN 7 0 UR AIR 72 43 14 43 77 25	.17 -17 -17 -29 	0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.22 0.0 0.0 0.0	0.9 0.0 TOT VARIA 0.4 0.1 0.4 0.7	3.00 0.0 0.0 0.0 AL BBLE 4.3 4.3	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24 0.82	0	7TIME 1.00 0.13 0.21	0.24 5.21 5.03 1.63
CATEGORY TOTAL EXPENSES TOTAL TABLE	UNIT ACRE ACRE LABOR, C. DOL. HR. CCDE 4 37 42 37 45 11EM NO. 11 11EM NO. 11 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 14 13 14 14 14 14 14 14 14 14 14 14 14 14 14	MONT J 0 O AP 1T AL 0 LABO 0 MACH DEPR 1.05 1.66 0.52 1.66 1.24 0.60	HLY SUPAN FOR COLUMN SUPAN FOR COLUMN SUPAN SUPA	IMARY FE8 0.0 IN ERY, 0.0 REMEN 0.0 IXED UR. 0.0 0.0 0.0 ABOR HOURS	O-58 TS BY M O-16 O-16 O-21 O-07 MACHINE HOURS O-129	IPTS A APR 0.0 0.40 AD, RI 0.20 DNTH 0.16 IABLE TOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JUN 0.0 2.0 2.0 D HANA 0.6 0.2 PER HCD 0.0 0.0	01 00 00 00 00 00 00 00 00 00 00 00 00 0	.17 .17 .17 .29 FUE 1.4 0.0 0.0 0.0 0.0 0.0 COSTS	0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.22 0.0 0.0 0.0	0.9 0.0 TOT VARIA 0.4 0.1 0.4 0.7	3.00 0.0 0.0 0.0 AL BBLE 4.3 4.3	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24 0.82	0	7TIME 1.00 0.13 0.21	0.24 5.21 5.03 1.63
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES NETURNS TO LAND, ANNUAL CAPITAL HACHINERY LABOR MACHINE RACTOR(4) DEFSET OISK HISEL CULTIBEDDER PLNT COM CULTIVATOR OPERATION DEFSET DISK HISEL COMPANY DEFSET DISK HISEL	UNIT ACAE LABOR, C. DOL. HR. CCDE 4 37 42 37 45 5 1 1 EM NO. 1 4 4 37 1 4 4 4 2 4 4 4 4 2 4 4 4 2 4 4 4 2 4 4 4 2 4 4 4 2 4 4 4 2 4 4 4 2 4 4 4 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	MONT J J O O O O O O O O O O O O O O O O O	HLY SUP AN F O C O C O MACH!	IMARY FE8 J. 0 J. 0 IN ERY, IN ERY J. 0 IXED SUR O O O O O O O O O O O O O O O O O O O	O.58 O.58 O.58 O.41 AND VAR O.16 O.21 O.06 O.21 O.07 MACHINE HOURS O.129 O.2129	IPTS A APR O.0 O.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JUN 0.0 2.0 2.0 D HANA 0.6 0.2 PER HCD 0.0 0.0	01 00 00 00 00 00 00 00 00 00 00 00 00 0	.70 .70 .77 .17 .29 .10 .00 .00 .00 .00 .00 .00 .00 .00 .00	0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.22 0.0 0.0 0.0	0.9 0.0 TOT VARIA 0.4 0.1 0.4 0.7	3.00 0.0 0.0 0.0 AL BBLE 4.3 4.3	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24 0.82	0	7TIME 1.00 0.13 0.21	0.24 5.21 5.03 1.63
CATEGORY TOTAL EXPENSES TOTAL TARGET TOTAL THE TOTA	UNIT ACRE ACRE LABOR, C. DOL. HR. CCDE 4 37 42 37 45 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MONT J 0 O AP 1T AL 0 LABOO 0 O DEPR 1.05 1.66 0.52 1.66 1.24 0.60 DATE	HLY SUPAN (CO.) AN (C	IMARY FE8 0.0 INERY, 0.0 IXED SUR. 06 07 02 07 09 ABOR HOURS	OF RECE , MAR , O. O OVERHE O. 58 TS BY M O. 41 AND VAR TAX O. 16 O. 21 O. 06 O. 21 O. 07 MACHINE HOURS O. 129 O. 129 O. 129 O. 129	IPTS A APR 0.0 0.40 0.40 AD, RI 0.20 ONTH 0.16 IABLE TOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JUN 0.0 2.0 2.0 D HANA 0.6 O.2 PER HCD 0.0 0.0	01 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.17 .17 .17 .17 .29 	0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.22 0.0 0.0 0.0	0.9 0.0 TOT VARIA 0.4 0.1 0.4 0.7	3.00 0.0 0.0 0.0 AL BBLE 4.3 4.3	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24 0.82	0	7TIME 1.00 0.13 0.21	0.24 5.21 5.03 1.63
CATEGORY TOTAL EXPENSES TOTAL TARGET TOTAL THE TOTA	UNIT ACRE LABOR, C. DOL. HR. CCDE 4 37 42 37 45 45 11EM NO. 1 4,37 4,42 1 4,37 4,37 4,37 4,37 4,37 4,37 4,37 4,37	MONT J 0 O AP 1T AL 0 LABOO 0 O DEPR 1.05 1.66 0.52 1.66 1.24 0.60 DATE	HLY SUPAN (CO.) AN (C	IMARY FE8 J. 0 J. 0 IN ERY, IN ERY J. 0 IXED SUR O O O O O O O O O O O O O O O O O O O	O.58 O.58 O.58 O.41 AND VAR O.16 O.21 O.06 O.21 O.07 MACHINE HOURS O.129 O.2129	IPTS A APR 0.0 0.40 0.40 AD, RI 0.20 ONTH 0.16 IABLE TOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JUN 0.0 2.0 2.0 D HANA 0.6 O.2 PER HCD 0.0 0.0	01 00 00 00 00 00 00 00 00 00 00 00 00 0	.17 .17 .17 .17 .29 	0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.22 0.0 0.0 0.0	0.9 0.0 TOT VARIA 0.4 0.1 0.4 0.7	3.00 0.0 0.0 0.0 AL BBLE 4.3 4.3	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24 0.82	0	7TIME 1.00 0.13 0.21	0.24 5.21 5.03 1.63
CATEGORY TOTAL EXPENSES TOTAL TABLE THE TOTAL THE T	UNIT ACRE ACRE LABOR, C. DOL. HR. CCDE 4 37 42 37 45 51 1TEM NO. 1 4.47 1 4.47 1 4.47 1 4.47 1 4.47 1 4.47 1 4.47 1 4.47 1 4.37 1 4.47 1 4.37 1 4.47 1 4.37 1 4.47 1 4.37 1 4.47 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.37 1 4.3	MONT J O O AP IT AL O LABO O MACH DEPR 1.05 1.66 0.52 1.66 1.24 0.60 DATE MAR	- O C C C C C C C C C C C C C C C C C C	IMARY FE8 0.0 INERY, 0.0 IXED SUR. 06 07 02 07 09 ABOR HOURS	OF RECE , MAR , O. O OVERHE O. 58 TS BY M O. 41 AND VAR TAX O. 16 O. 21 O. 06 O. 21 O. 07 MACHINE HOURS O. 129 O. 129 O. 129 O. 129	IPTS A APR 0.0 0.40 AD, RI 0.20 ONTH 0.16 IABLE TOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JUN 0.0 2.0 2.0 D HANA 0.6 O.2 PER HCD 0.0 0.0	01 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0 .70 .77 .77 .79 .29	0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.22 0.0 0.0 0.0	0.9 0.0 TOT VARIA 0.4 0.1 0.4 0.7	3.00 0.0 0.0 0.0 AL BBLE 4.3 4.3	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24 0.82	0	7TIME 1.00 0.13 0.21	0.24 5.21 5.03 1.63
CATEGORY OTAL RECEIPTS OTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE M	UNIT ACRE LABOR, C. DOL. HR. CCDE 4 37 42 37 45 45 437 4,37 4,37 4,67 4,67 4,37 4,67	MONT J J 0 0 0 0 AP IT AL 0 0 LABO 0 0 0 1 - 6 0 1 - 6 0 1 - 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- O C C C C C C C C C C C C C C C C C C	IMARY 12E8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	OF RECE MAR OOO OVERHE O.58 TS BY M O.41 AND VAR TAX O.16 O.21 O.06 O.129 O.129 O.129 O.129 O.129 O.129	IPTS A APR 0.0 0.40 0.40 0.40 0.40 0.40 0.40 0.40	0.0 COSTS L FIX 1.94 0.01 1.94 1.92 0.70 OIL LU R PER	JUN 0.0 2.0 2.0 D HANA 0.6 O.2 PER HCD 0.0 0.0	O O O O O O O O O O O O O O O O O O O	-0 .70 .77 .77 .77 .29	0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.22 0.0 0.0 0.0	0.9 0.0 TOT VARIA 0.4 0.1 0.4 0.7	3.00 0.0 0.0 0.0 AL BBLE 4.3 4.3	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24 0.82	0	7TIME 1.00 0.13 0.21	0.24 5.21 5.03 1.63

TABLE XXXIX
DRYLAND GRAIN SORGHUM, SANDY LOAM SOIL

CATEGORY	UNITS	PRICE	QUANTI TY	VALUE
PRODUCTION:				
MILO	CHT.	2.340	21.000	49.14
MILO STUBBLE	AUMS -	6.000	21.000 0.750	4.50
TOTAL RECEIPTS				53.64
OPERATING INPUTS:				
MILO SEED	LBS.	0.270	4.000	1.08
NITROGEN	LBS.	0.140	50.000	7.00
INSECTICIDE	ACRE	2. 200	1.000	2.20
CUSTOM COMBINE	ACRE	10.000	1.000	10.00
CUSTOM HAULING	CWT.	0.100	21.000	2.10
TRACTOR FUEL COST	AC RE			1.62
TRACT REPAIR COST	ACRE			0, 79
TRACTOR LUBE COST	ACRE			0.24
EQUIP REPAIR COST	ACRE			0. 37
TOTAL OPERATING COST				25.41
RETURNS TO LAND, LABOR, CAPITAL, MACHINER OVERHEAD, RISK, AND MANAGEMENT	** **	\		28.23
OATHUE MANALISMA MANAGEMENT				20.23
CAPITAL COST: ANNUAL OPERATING CAPITAL		0 100	E 002	0.51
		0.100	5.093 11.563	0.51
TRACTOR INVESTMENT		0.100	7.957	1. 10
EQUIPMENT INVESTMENT		0.100	1.451	
TOTAL INTEREST CHARGE				2. 46
RETURNS TO LAND, LABOR, MACHINERY, OVERHEAD, RISK AND MANAGEMENT				25. 77
CWNERSHIP COST: (DEPRECIATION, TAXES, INSURANCE)				
TRACTOR	DOL.			1.38
	DOL.		•	
E CUI PHENT	DOL.			1.26
TOTAL CWNERSHIP COST				2. 65
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				23. 13
LABCR COST:				
	HR.	3-000	1 165	2 50
TOTAL LABOR COST	FIN •	3.000	10133	3.59
				20 27
RETURNS TO LAND, OVERHEAD,				10.54
RISK AND MANAGEMENT			~~~~~~	19.54

PANHANCLE ENERGY BUDGETS

ENTERPRISE 73 AREA AND COUNTY 10 DETAIL 00 IRIG. LEVEL 0 LAND CLASS 8 GRAZING 0 MACH. COMP. 1 IRIG. SYSTEM 0 PRICE VECT 1 INDIV. NUMBER 0 ANNUAL CAPITAL MONTH:10 DATE PRINTED: 03/05/75

TABLE XXXIX (Continued)

1.5	1.0	2	3	4	5.	4 .	. 7	8	9	10	11	: 12	13	14	- 15	16	17	18
. INE	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	PRICE	WEIGH		CODE	TYPE	CONT
RODUCTION						R OF L		2.2								•	-	
1 MILO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.00		0.0	2.340 6.000			73. 157.	Ž.	٥.
2 MILO STUBBLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.50	0.0	6.000	0.0		137.	٠.	٠.
PERATING INPUTS	. 1				RAT	E/UNIT	r .						PRICE	NUMBE	R UNIT	ITEM	TYPE	CONT
	4 4 4														S CODE			
11 FILO SEED	0.0	0.0	0.0	0.0	0.0	4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.270	0.0		173.	3.	0.
12 NITAUGEN	0.0	0.0	0.0	0.0	50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.140		12.	211.	3.	0.
13 INSECTICIDE	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	2.200			240.	3.	٥.
L4 CUSTOM COMBINE		0.0		0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	, 0.0	10.000			305,	3.	0.
5 CUSTOM HAULING	0.0	0.0	0.0	0.0	0.0	0.0	. 0, 0	0.0	0.0	21.00	0.0	. 0. 0	0.100	0.0	16.	306.	3.	0.
AACHINERY REQUIRE	MENTS					TIMES	OVER						XXXXX	xxxxx	POWER	MACH	TYPE	CONT
8 OFFSET DISK	0.0	· O• Q	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		37.	4.	0.
39 CHISEL	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	42.	4.	õ.
O OFFSET DISK	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	37.	4.	ō.
41 CULTIBEDDER PL		0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	67.	4.	0.
2 POW CULTIVATOR		0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	45.	4.	0.
	LE ENERG	Y BUDGI	ETS											INERY C			1	
													EQUI	PMENT C	DMPLEM	ENT	1	
*** NO NAME CHANGE	S HAVE B	EEN STO	DRED WI	TH TH	IS BUDG	ET***												
				RED W	1TH THI	s BUDG	ET+++											
*** NO COMPLEMENT	CHANGES	HAVE BI	EEN STO	MARY	OF RECE	IPTS A	ND EXP											
** NO COMPLEMENT	CHANGES	HAVE BI	EEN STO	MARY I	OF RECE	IPTS A	ND EXP	JUN			AUG	SEP	OCT	NOV	DEC			DTAL
***NO COMPLEMENT CATEGORY OTAL RECEIPTS	CHANGES UNIT ACRE	HAVE BI	EEN STO	MARY I	OF RECE MAR 0.0	IPTS A	ND EXP	JUN 0.0	9	.0	0.0	0.0	50.64	3.00	0.0		53	3.64
CATEGORY OTAL RECEIPTS OTAL EXPENSES	CHANGES UNIT ACRE ACRE	HAVE BI	HLY SUM	MARY	OF RECE MAR 0.0 1.00	APR 0.0 0.40	MAY 0.0 7.00	JUN 0.0 2.0	1 2	.90							53 25	
CATEGORY OTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND,	CHANGES UNIT ACRE ACRE	MONTI J O O Apital	HLY SUM AN F 0 0	MARY	OF RECE MAR 0.0 1.00	APR 0.0 0.40	MAY 0.0 7.00	JUN 0.0 2.0 D MANA	1 2 GEMEN	.90 T	0.0	0.0	50.64	3.00	0.0		51 25 28	3.64 5.41
CATEGORY OTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND,	CHANGES UNIT ACRE ACRE LABOR, C	HAVE BI	HLY SUM AN F O O O O MACHI	MARY EB .O .O NERY,	OF RECE MAR 0.0 1.00 OVERHE	IPTS A APR 0.0 0.40 AD, RI	MAY 0.0 7.00 ISK, AN	JUN 0.0 2.0 D MANA	1 2 GEMEN	.90 T	0.0	0.0	50.64 12-10	3.00 0.0	0.0		51 25 28	3.64 5.41 8.23
CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND,	UNIT ACRE ACRE LABOR, C	MONTI JA O APITAL	HLY SUM AN F O O O O MACHI	MARY EB .O .O NERY,	OF RECE MAR 0.0 1.00 OVERHE	IPTS A APR 0.0 0.40 AD, RI	MAY 0.0 7.00 ISK, AN	JUN 0.0 2.0 D MANA	1 2 GEMEN 7 0	.90 T	0.0	0.0	50.64 12-10	3.00 0.0	0.0		55 25 28	3.64 5.41 8.23
CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND,	UNIT ACRE ACRE LABOR, C	HAVE BI	HLY SUM AN F 0 0 0 0 , MACHI	MARY EB .0 .0 NERY,	OF RECE MAR 0.0 1.00 OVERHE 0.58 TS BY M	1PTS A APR 0.0 0.40 (AD, RI 0.20	0.0 7.00 ISK, AN	JUN 0.0 2.0 D MANA 0.6	7 0	.90 T	0.0	0.0	0.0	3.00 0.0 0.0	0.0		55 25 28	3.64 5.41 8.23 5.09
CATEGORY CATEGORY COTAL EXPENSES CETURNS TO LAND, ANNUAL CAPITAL CACHINERY LABOR	UNIT ACRE ACRE LABOR, C	MONTI JI	EEN STO	MARY EB .0 .0 NERY,	OF RECE MAR 0.0 1.00 OVERHE 0.58 TS BY M 0.41 AND VAR	APR 0.0 0.40 AD, RI 0.20 IONTH 0.16	AND EXP MAY 0.0 7.00 ISK, AN 2.92 0.0	JUN 0.0 2.0 D MANA 0.6 0.3	7 0 4 0	.0 .90 T	0.0	0.0 0.0	0.0 0.0	3.00 0.0 0.0	0.0		53 25 25	3.64 5.41 8.23 5.09
***NO COMPLEMENT CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND, INNUAL CAPITAL MACHINERY LABOR MACHINE	CHANGES UNIT ACRE ACRE LABOR, C DOL. HR.	MONTI JO O O O O O O O O O O O O O O O O O O	HLY SUM AN F O O O O O MACHI O O R REQUI O O	MARY EB .0 .0 NERY, .0 REMEN .0	OF RECE MAR 0.0 1.00 OVERHE 0.58 TS BY M 0.41 AND VAR	APR 0.0 0.40 0.40 NTH 0.16	AND EXP MAY 0.0 7.00 ISK, AN 2.92 0.0	JUN 0.0 2.0 D MANA 0.6 0.3	1 2 GEMEN 7 0 4 0 UR AIR	. 72 - 72 - 72	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	3.00 0.0 0.0 0.0 TAL	0.0 0.0 0.0		53 28 28 5	3.64 5.41 8.23 5.09
*** NO COMPLEMENT CATEGORY OTAL EXPENSES ETURNS TO LAND, NUNUAL CAPITAL IACHINERY LABOR MACHINE RACTOR(4)	UNIT ACRE ACRE LABOR, C	HAVE BI	EEN STO	MARY EB .O .O NERY, .O .O	OF RECEMAR 0.0 1.00 OVERHE 0.58 TS BY M 0.41 AND VAR TAX 0.16	APR 0.0 0.40 0.40 0.20 IONTH 0.16	0.0 7.00 ISK, AN 2.92 0.0 COSTS AL FIXE	JUN 0.0 2.0 D MANA 0.6 0.3 PER HO D REP 0.	1 2 GEMEN 7 0 4 0 UR AIR 72	.0 .90 T .72	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 VARI	3.00 0.0 0.0 0.0 TAL ABLE	0.0 0.0 0.0		53 28 28 5 1	3.64 5.41 8.23 5.09
CATEGORY OTAL RECEIPTS OTAL EXPENSES INTELEMENT TO LAND, INNUAL CAPITAL MACHINERY LABOR PACHINE RACTOR(4) PEFSET DISK	UNIT ACRE ACRE LABOR, C	MONTI JO O O APITAL O O CABO	HLY SUM AN F .0 0 , MACHI .0 0 INERY F INS	MARY EB .0 .0 NERY, .0 TXEC UR. 06	OF RECE MAR 0.0 1.00 OVERHE 0.58 TS BY M 0.41 AND VAR TAX 0.16 0.21	APR 0.0 0.40 0.40 0.20 IONTH 0.16	0.0 7.00 ISK, AN 2.92 0.0 COSTS AL FIXE 1.27 1.94	JUN 0.0 2.0 D MANA 0.6 0.3 PER HO D REP C. 0.	7 0 4 0 WR AIR 72	.0 .90 T .72 .29 FUE 1.4' Q. 0	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 TU VARI	3.00 0.0 0.0 0.0 TAL ABLE	0.0 0.0 0.0 0.0 INT. 1.06 1.24		51 28 28 28 5 1 7TIME 1.00	3.64 5.41 8.23 5.09
CATEGORY FOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE FRACTOR(6) DEFSET DISK	UNIT ACRE ACRE LABOR, C	MONTI JI O APITAL LABOI DEPR 1.05 1.66 0.52	EEN STU HLY SUM AN F .0 O .0 O , MACHI .0 O INERY F INS 0.	MARY EB .0 .0 NERY, .0 REMEN .0 IXEC UR. 06 07	OF RECE MAR 0.0 1.00 UVERHE 0.58 TS BY M 0.41 AND VAR TAX 0.16 0.21	IPTS A APR 0.0 0.40 AD, RI 0.20 IONTH 0.16	0.0 7.00 ISK, AN 2.92 0.0 COSTS AL FIXE 1.27	JUN 0.0 2.0 D MANA 0.6 0.3 PER HO D REP 0. 0.	0 1 2 GEMEN 7 0 4 0 UR AIR 72 43	.0 .90 T	0.0 0.0 0.0	0.0 0.0 0.0 0.0 LUB. 0.22 0.0	0.0 0.0 TU VARI	3.00 0.0 0.0 0.0 TAL ABLE 44 43	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39		52 28 28 5 1 7TIME 1.00 0.13	3.64 5.41 8.23 5.09
CATEGORY OTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE RACTOR(4) JEFSET DISK HISEL JEFSET DISK	CHANGES UNITACRE ACRE LABOR, C DOL. HR. CODE 4 37 42 37	HAVE BI MUNTI JI O APITAL O LABOR PACH DEPR 1.05 1.66 0.52 1.66	EEN STO HLY SUM AN F .0 0 .0 0 , MACHI .0 0 INERY F INS 0. 0.	MARY I EB .O.O. NERY, .O. TXEC UR. O.O. O.O.	OF RECE MAR 0.0 1.00 OVERHE G.58 TS BY M 0.41 AND VAR TAX 0.16 0.21 0.06	0.20 O.40 O.20 IONTH O.16	0.0 7.00 ISK, AN 2.92 0.0 COSTS AL FIXE 1.27 1.94 0.61	JUN 0.0 2.0 D MANA 0.6 0.3 PER HO D REP 0. 0.	0 1 2 GEMEN 7 0 4 0 4 0 UR AIR 72 43 14	.0 .90 T .72 .29 FUE 1.4' Q.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 TU VARI 2.4 0.4	3.00 0.0 0.0 0.0 TAL ABLE	0.0 0.0 0.0 INT. 1.06 1.24	1	7TIME 1.00 1.21 1.21	3.64 5.41 8.23 5.09
**NO COMPLEMENT CATEGORY OTAL EXPENSES OTAL EXPENSES ETURNS TO LAND, NANUAL CAPITAL MACHINERY LABOR MACHINE RACTOR(4) HFSET DISK ULTIBEDDER PLNT	UNIT ACRE ACRE LABOR, C DOL. HR. CODE 4 42 37 42 67 67	MONTI J. O. APITAL LABOI O. MACH DEPR 1.05 1.66 0.52	HLY SUM AN F .0 0 0 .0 MACHI .0 0 O R REQUI .0 0 INERY F INS 0.	MARY I EB .0 .0 NERY, .0 NERY, .0 NERY, .0 TXED UR. .06 O7 O7 O5	OF RECE HAR 0.0 1.00 OVERHE 0.58 TS BY M 0.41 AND VAR TAX 0.16 0.21 0.06 0.21	APR 0.0 0.40 EAD, RI 0.20 IONTH 0.16	0.0 7.00 ISK, AN 2.92 0.0 COSTS AL FIXE 1.27 1.94 0.61 1.94	JUN 0.0 2.0 D MANA 0.6 O.3 PER HOO D REP 0. 0.	7 0 4 0 4 0 4 0 4 1 72 43 14 43 77	.0 .90 T .72 .29 FUE 1.4 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 TU VARI 2.4 0.4 0.0	3.00 0.0 0.0 TAL ABLE	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24	1	7TIME 1.000 0.13 0.13 0.15	3.64 5.41 8.23 5.09
CATEGORY I GTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE TRACTOR(4) DEFSET DISK	CHANGES UNITACRE ACRE LABOR, C DOL. HR. CODE 4 37 42 37	HAVE BI MUNTI JI O APITAL O LABOR PACH DEPR 1.05 1.66 0.52 1.66	HLY SUM AN F .0 0 0 .0 MACHI .0 0 O R REQUI .0 0 INERY F INS 0.	MARY I EB .O.O. NERY, .O. TXEC UR. O.O. O.O.	OF RECE MAR 0.0 1.00 OVERHE G.58 TS BY M 0.41 AND VAR TAX 0.16 0.21 0.06	APR 0.0 0.40 EAD, RI 0.20 IONTH 0.16	0.0 7.00 ISK, AN 2.92 0.0 COSTS AL FIXE 1.27 1.94 0.61	JUN 0.0 2.0 D MANA 0.6 0.3 PER HO D REP 0. 0.	7 0 4 0 4 0 4 0 4 1 72 43 14 43 77	.0 .90 T .72 .29 FUE 1.4' Q.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 TU VARI 2.4 0.4	3.00 0.0 0.0 TAL ABLE	0.0 0.0 0.0 INT. 1.06 1.24	1	7TIME 1.00 1.21 1.21	3.64 5.41 8.23 5.09
CATEGORY COTAL EXPENSES COTAL EXPENSES CETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE RACTIOR(4) DEFSET DISK HISEL LUTTIBEDDER PLNT COM CULTIVATOR	CHANGES UNIT ACRE ACRE LABOR, C DOL. HR. CODE 4 37 42 37 42 37 42 17EM	MONTH J J J J J J J J J J J J J J J J J J J	EEN STO	MARY EB O O NERY O O O O O O O O O	G.58 TS BY M O.41 AND VAR TAX O.16 O.21 O.06 O.21 O.07	IPTS A APR 0.0 0.40 0.40 0.20 IDNTH 0.16 IABLE TOTA	0.0 7.00 15.00 15.00 15.00 15.00 0.0 COSTS AL FIXE 1.27 1.94 0.61 1.42 0.70	JUN 0.0 2.0 D MANA 0.6 0.3 PER HO D REP 0. 0. 0. 0.	1 2 GEMEN 7 0 4 0 UR AIR 72 43 43 77 25	. 72 - 72 - 29 - FUE 1.4- Q. 0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 TU VARI 2.4 0.4 0.0	3.00 0.0 0.0 TAL ABLE	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24	1	7TIME 1.000 0.13 0.13 0.15	3.64 5.41 8.23
**NO COMPLEMENT CATEGORY OTAL EXPENSES OTAL EXPENSES ETURNS TO LAND, NANUAL CAPITAL MACHINERY LABOR MACHINE RACTOR(4) HFSET DISK ULTIBEDDER PLNT	CHANGES UNIT ACRE ACRE LABOR, C DOL. HR. CODE 4 37 42 37 42 37 42 17EM	MONTH J J J J J J J J J J J J J J J J J J J	EEN STO	MARY EB O O NERY O O O O O O O O O	O-58 TS BY M O-01 AND VAR TAX O-16 O-21 O-07	IPTS A APR 0.0 0.40 0.40 0.20 IDNTH 0.16 IABLE TOTA	0.0 7.00 15.00 15.00 15.00 15.00 0.0 COSTS AL FIXE 1.27 1.94 0.61 1.42 0.70	JUN 0.0 2.0 D MANA 0.6 0.3 PER HO D REP 0. 0. 0. 0.	1 2 GEMEN 7 0 4 0 UR AIR 72 43 43 77 25	. 72 - 72 - 29 - FUE 1.4- Q. 0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 TU VARI 2.4 0.4 0.0	3.00 0.0 0.0 TAL ABLE	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24	1	7TIME 1.000 0.13 0.13 0.15	3.64 5.41 8.23
**NO COMPLEMENT CATEGORY UTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND. INNUAL CAPITAL MACHINERY LABOR MACHINE RACTOR(4) FFSET DISK HISEL ULTIBEDDER PLNT ON CULTIVATOR	CHANGES UNIT ACRE ACRE LABOR, C DOL. HR. CODE 4 37 42 37 42 67 45 ITEM NO.	MONTH 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EEN STO	MARY I EB . O . O . NERY, . O . REMEN . O . IXEC . UR O . O . O . O . O . O . O . O . O .	G.58 TS BY M O.41 AND VAR TAX O.16 O.21 O.06 O.21 O.07	O.20 IONTH O.16 IABLE TOTA	0.0 7.00 15.00 15.00 15.00 15.00 0.0 COSTS AL FIXE 1.27 1.94 0.61 1.42 0.70	JUN 0.0 2.0 D MANA 0.6 0.3 PER HO D REP 0. 0. 0. 0.	1 2 GEMEN 7 0 4 0 UR AIR 72 43 43 77 25	.0 .90 T .72 .29 .29 .29 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	0.0 0.0 0.0	0.0 0.0 0.0 0.0 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 TU VARI 2.4 0.4 0.0	3.00 0.0 0.0 TAL ABLE	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24	1	7TIME 1.000 0.13 0.13 0.15	3.64 5.41 8.23
CATEGORY OTAL EXPENSES OTAL EXPENSES ETURNS TO LAND, INNUAL CAPITAL IACHINERY LABOR MACHINE RACTOR(4) IFFSET DISK HISEL IFFSET DISK OULTIVATOR OPERATION OFFSET DISK	CHANGES UNIT ACRE ACRE ACRE LABOR, C DOL. HR. CODE 4 37 42 37 47 45 ITEM NO. 4,37 4,42	HAVE BI MUNTI O APITAL O LABOI PACH DEPR 1.05 1.05 1.24 0.60 DATE MAR MAR	EEN STO	MARY I EB . O . O . O . O . O . O . O . O . O .	0.58 Y M 0.10 O.21 O.21 O.21 O.21 O.27 MACHINE HOURS	APR 0.0 O.40 O.40 O.40 O.40 O.16 IABLE TOTA	0.0 7.00 (ISK, AN 2.92 0.0 COSTS AL FIXE 1.27 1.94 0.61 1.94 1.42 0.70	JUN 0.0 2.0 D MANA 0.6 0.3 PER HO D REP 0. 0. 0. 0.	1 2 GEMEN 7 0 4 0 WR AIR 72 43 14 43 17 72 5	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00	0.0 0.0 0.0	0.0 0.0 0.0 0.0 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 TU VARI 2.4 0.4 0.0	3.00 0.0 0.0 TAL ABLE	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24	1	7TIME 1.000 0.13 0.13 0.15	3.64 5.41 8.23
CATEGORY OTAL RECEIPTS TOTAL EXPENSES SETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE	UNIT ACRE ACRE LABOR, C DOL. HR. CODE 4, 37 42 37 45 ITEM NO.	HAVE BI HONTI O. APITAL LABDI O. PACH DEPR 1.05 0.52 1.66 0.52 1.66 0.60 DATE NAR HAR	EEN STO	MARY I EB . O . O . O . O . O . O . O . O . O .	O-58 TS BY M O-0 O-41 AND VAR O-16 O-21 O-07 MACHINE HOURS O-129 O-210 O-129 O-129	O.20 IONTH O.16 ITABLE TOTA	0.0 7.00 15K, AN 2.92 0.0 COSTS AL FIXE 1.27 1.94 0.61 1.42 0.70	JUN 0.0 2.0 D MANA 0.6 0.3 PER HO D REP 0. 0. 0. 0.	1 2 GEMEN 7 0 4 0 UR AIR 72 43 77 25 IXED PER A	.00 .90 T .72 .29 FUE 1.4 Q.0 0.0 0.0 0.0 0.0 COSTS CRE	0.0 0.0 0.0	0.0 0.0 0.0 0.0 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 TU VARI 2.4 0.4 0.0	3.00 0.0 0.0 TAL ABLE	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24	1	7TIME 1.000 0.13 0.13 0.15	3.64 5.41 8.23
CATEGORY COTAL EXPENSES COTAL EXPENSES CETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE RACTOR(4) JOFSET DISK MISSEL JOFSET DISK COLTIVATOR OPERATION OPERATION OPERATION OPERATION OPERATION OPERATION	CHANGES UNIT ACRE ACRE LABOR, C DOL. HR. CODE 4, 37 42 4, 37 4, 42 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4, 37 4	MONTH OF THE PROPERTY OF THE P	EEN STO	MARY EB - 0 - 0 - 0 NERY, - 0 TXEC UR. 06 07 02 03 ABOR S	0.58 Y M 0.10 O.21 O.21 O.21 O.21 O.27 MACHINE HOURS	PTS A APR 0.0 0.40 0.40 0.20 IDNTH 0.16 IABLE TOTA	0.0 7.00 ISK, AN 2.92 0.0 COSTS AL FIXE 1.27 1.94 0.61 1.42 0.70 GIL, LU R PER	JUN 0.0 2.0 D MANA 0.6 0.3 PER HO D REP 0. 0. 0. 0.	1 2 GEMEN 7 0 4 0 4 0 4 0 4 0 4 3 1 4 4 3 1 4 4 3 1 7 7 7 2 5 1 X ED PER A	-0 -90 T T T -72 -29 FUE 1.4 Q. 0 O.0 O.0 O.0 COSTS CRE 4 5 4	0.0 0.0 0.0	0.0 0.0 0.0 0.0 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 TU VARI 2.4 0.4 0.0	3.00 0.0 0.0 TAL ABLE	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24	1	7TIME 1.000 0.13 0.13 0.15	3.64 5.41 8.23 5.09
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINERY LABOR MACHINE FRACTOR(4) DEFSET DISK CULTIBEDDER PLNT ROW CULTIVATOR OPERATION DEFSET DISK CHISEL DEFSET DISK CULTIBEDDER PLNT	CHANGES UNIT ACRE ACRE LABOR, C DOL. HR. CODE 4, 37 42 37 45 ITEM NO. 4,37 4,47 4,47 4,67 4,67 4,67	MONTI JUN	EEN STO	MARY 1 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.58 TS BY M 0.41 AND VAR TAX 0.10 0.21 0.021 0.03 0.07 MACHINE HOURS 0.129 0.129 0.129 0.129 0.129	O.20 IONTH O.16 IABLE TOTA	0.0 7.00 15K, AN 2.92 0.0 COSTS LL FIXE 1.27 1.94 0.61 1.94 1.42 0.70 GIL, LUR PER	JUN 0.0 2.0 D MANA 0.6 0.3 PER HO D REP 0. 0. 0. 0.	7 0 GEMEN 7 0 4 0 UR 43 77 25 IXED PER A 0.7 C.7 C.7 O.7	-0 -90 T T T -72 -29 -29	0.0 0.0 0.0	0.0 0.0 0.0 0.0 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 TU VARI 2.4 0.4 0.0	3.00 0.0 0.0 TAL ABLE	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24	1	7TIME 1.000 0.13 0.13 0.15	3.64 5.41 8.23 5.09
CATEGORY CATEGORY COTAL EXPENSES COTAL EXPENSES CETURNS TO LAND, ANNUAL CAPITAL HACHINERY LABOR MACHINE MACHINE	CHANGES UNIT ACRE ACRE LABOR, C DOL. HR. CODE 4, 37 42 37 45 ITEM NO. 4,37 4,47 4,47 4,67 4,67 4,67	MONTI JUN	EEN STUMES L.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00 001.00	MARY 1 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	O-58 O-58 O-58 O-58 O-58 O-41 AND VAR TAX O-16 O-21 O-02 O-13 O-07 MACHINE HOURS O-129 O-129 O-129 O-129 O-129 O-129 O-129	PREPARE	0.0 7.00 15K, AN 2.92 0.0 COSTS AL FIXE 1.27 1.94 0.61 1.42 0.70 GIL, LU R PER	JUN 0.0 2.0 D MANA 0.6 0.3 PER HO D REP 0. 0. 0. 0.	0 2 2 3 4 6 6 6 7 7 0 0 7 7 0 0 7 7 7 7 7 7 7 7 7	-0 -90 T T T -72 -29 -29	0.0 0.0 0.0	0.0 0.0 0.0 0.0 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 TU VARI 2.4 0.4 0.0	3.00 0.0 0.0 TAL ABLE	0.0 0.0 0.0 0.0 INT. 1.06 1.24 0.39 1.24	1	7TIME 1.000 0.13 0.13 0.15	3.64 5.41 8.23 5.09

TABLE XL

DRYLAND SMALL GRAIN GRAZE-OUT, CLAY LOAM SOIL

CATEGORY	UNITS	PRICE	QUANTITY	VALUE
PROCUCTION:			7	
GRAZED WHEAT	AUMS	10.000	2.400	24. 00
TOTAL RECEIPTS				
CPERATING INPUTS:				
WHEAT SEED	BU.	5.000	1.000 30.000 30.000	5.00
NITROGEN	LBS.	0.140	30.000	4.20
PHOSPHATE	LBS.	0.250	30.000	7. 50
TRACTOR FUEL COST	ACRE			1.20
TRACT REPAIR COST	ACRE			0. 58
TRACTOR LUBE COST	ACRE			0.18
EQUIP REPAIR COST	ACRE			0.25
TOTAL OPERATING COST	•			18.91
RETURNS TO LAND, LABOR, CAPITAL, MACHINE	:			
CVERHEAD, RISK, AND MANAGEMENT	•			5. 09
CAPITAL COST:				
ANNUAL CPERATING CAPITAL		0.100	14.817	1-48
TRACTOR INVESTMENT		0.100	8.558	0.86
EQUIPMENT INVESTMENT			6.203	
TOTAL INTEREST CHARGE				2.96
RETURNS TO LAND, LABOR, MACHINERY.				
OVERHEAD, RISK AND MANAGEMENT				2. 13
OWNERSHIP COST: (DEPRECIATION,				
TAXES, INSURANCE)				
TRACTOR	DOL.			1.02
ECUI PMENT	DOL.			0. 97
TOTAL CHNERSHIP COST				1.99
RETURNS TO LAND, LABOR, OVERHEAD,				
RISK AND MANAGEMENT		·		0.14
LABOR COST:				
MACHINERY LABOR	HR.	3.000	0.885	2.65
TOTAL LABOR COST				2.65
RETURNS TO LAND, OVERHEAD,				
RISK AND MANAGEMENT				-2.51

PANHANCLE ENERGY BUDGETS

ENTERPRISE 89 AREA AND COUNTY 10 DETAIL 00 IRIG. LEVEL 0 LAND CLASS 1 GRAZING 6 MACH. COMP. 1 IRIG. SYSTEM 0 PRICE VECT 1 INDIV. NUMBER 1 ANNUAL CAPITAL MONTH: 6 DATE PRINTED: 03/05/75

TABLE XL (Continued)

	1 JAN	FEB	3 MAR	4 APR	5 May	6 JUN	7 JUL	. B	9 S EP	10 OCT	11 NOV	12 DEC	13 PRICE	14 WEIGHT	15 UNIT	16 1 T E M	17 TYPE	
INE		:		•					777					-		CODE		
RODUCTION 1 GRAZED WHEAT	0.04	0404	0.32	0. 82		0.0F U	0.D	0.0	0.0	0.0	0.32	0.32	10.000	0.0	10.	76.	2.	0.
PERATING INPUTS					RAT	E/UNIT			•				PRICE	NUMBER	UNIT		TYPE	CONT
11 WHEAT SEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	5.000	0.0		176.	3.	٥.
12 NITROGEN		0.0	0.0	0.0	0.0		0.0	30.00	0.0	0.0	0.0	0.0	0.140	0.0		211.	3.	0.
13 PHOSPHATE	0.0	·· · 0. 0	0.0	0.0	0.0	0.0	0.0	30.00	0.0	0.0	0.0	0.0	0.250	0.0	12.	214.	3.	0.
MACHINERY REQUIRE	EM ENTS		•			TIMES	OVER						XXXXX	XXXXX		MACH	TYPE	CON
38 CHISEL	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		42.	4.	0.
39 TANDEM DISK		0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	35.	4.	0.
40 SWEEP		0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	4.	41.	4.	0.
41 ROD WEEDER		0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.	59.	4.	٥.
42 CRILL WO/FERT	0.0	. O. O	. 0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.	61.	4.	٥.
	DLE ENERG		ETS											NERY CO			1	
	100												EQUIP	MENT CO	IMPLEM	ENT	ı	
***RO NAME CHANGI	ES HAVE R	EEN ST	OR ED =	ITH TH	IS AUDG	FT 44*												
The many commen						_,												
*** NO COMPLEMENT	CHANGES	HAVE E	EEN ST	DRED W	ITH THI	s BUDG	ET***											
***NO COMPLEMENT	CHANGES				ITH THI			PENSES									<u>-</u>	
CATEGORY	TINU	MON	HLY SU	MM ARY FEB	OF RECE	IPTS A	ND EX	JUK			AUG	SEP	 0ct	NOV	DEC			
CATEGORY TOTAL RECEIPTS	UNIT AGRE	MON	HLY SU	MM AR Y FEB 0.60	OF RECE MAR 3.20	IPTS A APR 8.20	ND EXI	AUL 0.0	0.	0	0.0	0.0	0.0	3.20	3.20		2	0TAL
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES	UNIT ACRE	MON	HLY SU	MM ARY FEB 0.60	OF RECE MAR 3.20	IPTS A APR 8.20 0.0	ND EXI	JUN 0 0.0 0.5	9 0.	0 43 L							? 1	4.00 8.91
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES	UNIT ACRE	MON	HLY SU	MM ARY FEB 0.60	OF RECE MAR 3.20	IPTS A APR 8.20 0.0	ND EXI	JUN 0 0.0 0.5	9 0.	0 43 L	0.0	0.0	0.0	3.20	3.20		? 1	4.00
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND.	UNIT ACRE	MGN (APITAL	HLY SU IAN 1.60 1.0	MM ARY FEB 0.60	OF RECE MAR 3.20	IPTS A APR 8.20 0.0	ND EXI	JUN 0 0.0 0.5	O. 9 O. GEMENT	43 1	0.0	0.0	0.0	3.20	3.20		?	4.00 8.91
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND.	UNIT ACRE ACRE LABOR, C	MON1	HLY SU	MMARY FEB 0.60 0.0 INERY, 0.0	OF RECE MAR 3-20 0-0 OVERHE	IPTS A APR 8.20 0.0 AD, RI	ND EXI MAY 5.0: 0.0 SK, AI	JUN 0 0.0 0.5 ND MANA 0.0	O. 9 O. GEMENT	43 I 40 I	0.0	0.0 5.83 4.38	0.0	3.20 0.0 0.0	3.2C 0.0		? 1	4.00 8.91 5.09 4.82
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND.	UNIT ACRE ACRE LABOR, C	MON1	HLY SU	MMARY FEB 0.60 0.0 INERY,	OF RECE MAR 3.20 0.0 OVERHE	IP-TS A APR 8.20 0.0 AD, RI	ND EXI NAY 5.0 0.0 SK, A	JUN 0 0.0 0.5 ND HANA	O. 9 O. GEMENT	43 I 40 I	0.0 2.05	0.0 5.83	0.0	3.20 0.0	3.20 0.0		? 1	4.00 8.91 5.09
CATEGORY TOTAL EXPENSES TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL	UNIT ACRE ACRE LABOR, C	MON1	HLY SUIAN .60 .00 . MACH R REQUI	MMARY FEB 0.60 0.0 INERY, 0.0 IREMEN 0.0	OF RECE MAR 3.20 0.0 OVERHE 0.0 TS BY M 0.0	IPTS A APR 8.20 0.0 AD, RI 0.0 ONTH 0.0	ND EXI MAY 5.0 0.0 SK, Al	0 0.0 0.5 ND MANA 0.0	O.GEMENT	43 1	0.05	0.0 5.83 4.38	0.0 0.0 0.0	0.0 0.0	3.2C 0.0		1	4.00 8.91 5.09 4.82
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE	UNIT ACRE ACRE LABOR, C	MONTO (CAPITAL CAPITAL CAPITA CAP	HLY SUIAN	MMARY FEB 0.60 0.0 INERY, 0.0 IR EM EN 0.0 FIXED SUR.	OF RECE MAR 3-20 0-0 OVERHE 0-0 TS BY M 0-0	IPTS A APR 8.20 0.0 AD, RI	ND EXI NAY 5.00 0.0 SK, AI 0.0	O.O O.S ND MANA O.O O.Z PER HO ED REP	O.GEMENT O.	43 1 40 1 18	0.0 2.05 0.04 0.12	0.0 5.83 4.38 0.33	0.0 0.0 0.0 TOT VARIA	3.20 0.0 0.0	3.2C 0.0 0.0		? 1 	4.00 8.91 5.09 4.82
CATEGORY TOTAL EXPENSES TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LAROR MACHINE TRACTOR(A)	UNITACRE ACRE LABOR, C	MONTO	HLY SUIAN .60 .00 . MACH R REQUI	MMARY FEB 0.60 0.0 INERY, 0.0 IR EM EN 0.0 FIXED SUR.	OF RECE MAR 3-20 0-0 OVERHE 0-0 TS BY M 0-0 AND VAR TAX 0-16	IPTS A APR 6.20 0.0 AD, RI O.0 ONTH 0.0 IABLE TGTA	ND EXI NAY 5.00 0.0 SK, AI 0.0 0.0 COSTS	O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O	O. GEMENT O. 5 O. UR	.40 1 .18	0.0 2.05 0.04 0.12	0.0 5.83 4.38 0.33	0.0 0.0 0.0 0.0 VARIA 2.4	3.20 0.0 0.0	3.2C 0.0 0.0 0.0	на	2 1 	4.00 8.91 5.09 4.82
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE TRACTOR(4)	UNIT ACRE ACRE LABOR, C	MONITAL LABO MACI	HLY SUI IAN I-60 I-60 I-0 IR REQUI I-0 IN IN I	MMARY FEB 0.60 0.0 INERY, 0.0 IR EM EN 0.0 FIXED SUR. .06	OF RECE MAR 3-20 0-0 OVERHE 0-0 TS BY M 0-0 AND VAR TAX 0-16	IPTS A APR 6.20 0.0 AD, RI 0.0 ONTH 0.0	ND EXI NAY 5-0 0-0 SK, Al 0-0 0-0 COSTS 1-27 0-61	O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.	O. GEMENT O. STATE O. THE STATE OF THE STA	.40 1 .40 1 .18	0.0 2.05 0.04 0.12	0.0 5.83 4.38 0.33	0.0 0.0 0.0 TOI VARIA 2.4	3.20 0.0 0.0 0.0	0.0 0.0 0.0 1NT. 1.06 0.39	на	2 1 /TIME 1.00 0.21	4.00 8.91 5.09 4.82
TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND. ANNUAL CAPITAL MACHINERY LAEDR HACHINE TRACTOR(4) CHISEL TANKER DISK	UNIT ACRE ACRE LABOR, C	MONION CONTRACTOR CONT	HLY SUI IAN I-60 I-60 I-0 MACH IN R REQUI IN IN I	MMARY FEB 0.60 0.0 INERY, 0.0 IR EM EN 0.0 FIXED SUR. .06	OF RECE MAR 3-20 0-0 GVERHE 0-0 TS BY M 0-0 AND VAR TAX 0-16 0-016	IPTS A APR 8.20 0.0 AD, RI 0.0 ONTH 0.0 IABLE TGTA	ND EXI MAY 5.00 0.00 SK, AI 0.0 0.0 COSTS IL FIXI 1.27 0.61 1.06	JUM O 0.0 O.5 ND MANA O.0 O.2 PER HO ED REP O. O.	O. 9 O. GEMENT O. 5 O. UR AIR 72 14	.40 1 .40 1 .18	0.0 2.05 0.04 0.12	0.0 5.83 4.38 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 TOI VARIA 2.44 0.1	3.20 0.0 0.0 0.0	3.2C 0.0 0.0 0.0 1NT. 1.06 0.39 0.68	H3 ()	7 TTME 1.00 0.21	4.00 8.91 5.09 4.82
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LAROR MACHINE TACTOR(4) TAILESEL TANLER SSHEEP	UNIT ACRE ACRE LABOR, C	MONITAL LABO MACI	HLY SUI IAN IAN IAN IAN IAN IAN IAN IAN IAN IA	MMARY FEB 0.60 0.0 INERY, 0.0 IR EM EN 0.0 FIXED SUR. .06	OF RECE MAR 3-20 0-0 OVERHE 0-0 TS BY M 0-0 AND VAR TAX 0-16	IPTS A APR 6.20 0.0 AD, RI 0.0 ONTH 0.0 IABLE	ND EXI NAY 5-0 0-0 SK, Al 0-0 0-0 COSTS 1-27 0-61	0.00 0.50 0.50 0.50 0.00 0.00 0.20 PER HO ED REP 0.00	O. GEMENT O. STATE O. THE STATE OF THE STA	.40 1 .40 1 .18	0.05 	0.0 5.83 4.38 0.33	0.0 0.0 0.0 TOI VARIA 2.4	3.20 0.0 0.0 0.0	0.0 0.0 0.0 1NT. 1.06 0.39	HR (2 1 /TIME 1.00 0.21	4.00 8.91 5.09 4.82
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND. ANNUAL CAPITAL MACHINERY LABOR MACHINE TRACTOR(4) CHISEL	UNIT ACRE ACRE LABOR, CODL. CODE 4 42 35 41	MACI DEPR 1.05 0.52 0.52	HLY SUI HAN .60 .60 .00 R REQU .0 .0 INNERY IN 0 0	MMARY FEB 0.60 0.0 INERY, 0.0 IR EM EN 0.0 FIXED SUR. .06 .02 .04	OF RECE MAR 3-20 0-0 OVERHE 0-0 TS BY M 0-0 AND VAR TAX 0-16 0-16 0-11	IPTS A APR 8.20 0.0 AD, RI 0.0 ONTH 0.0	0.00 EXI MAY 5.00 O.00 SK. AI O.00 COSTS IL FIXI 1.27 O.61 1.06 2.48	0.00 0.50 0.50 0.50 0.00 0.00 0.20 PER HO ED REP 0.00	0.9 0. GEMENT 0.5 0. UR AIR 72 14 24 83 21	.40 1 .40 1 .18	0.0 2.05 0.04 0.12	0.0 5.83 4.38 0.33 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 701 VARIA 2.4 0.1 0.2	3.20 0.0 0.0 0.0 AL BBLE 4 4 4	0.0 0.0 0.0 0.0 INT. 1.06 0.39 0.68 1.57	HR	7 TTME 1.00 0.21 0.15	4.00 8.91 5.09 4.82
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LARDR MACHINE TRACTOR(4) CHISEL TANLEH DISK SWEEP	UNITA ACRE LABOR, C DOL. HR. CODE 4 42 35 41 59 61	MON1 (APITAI LABO DEPR 1.05 0.52 0.91 2.12	HLY SUIJAN .60 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	MM ARY FEB 0.60 0.0 1 INERY, 0.0 IR EM EN 0.0 FIXED SUR. .06 .02 .04 .09	OF RECE MAR 3-20 0-0 GVERHE 0-0 TS BY M 0-0 AND VAR TAX 0-16 0-06 0-11 0-26 0-10 0-21	IPTS A APR 6.20 0.0 AD, RI 0.0 ONTH 0.0 IABLE TOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.00 0.50 0.55 ND MANA 0.00 0.2 PER HO ED REP 0.00 0.00	0.0 9 0. GEMENT 0.0 5 0. UR AIR 72 14 83 21	FUE 1.40 0.00 0.00 0.00 0.00	0.0 2.05 0.04 0.12	0.0 5.83 4.38 0.33 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 TOI VARIA 2.4 0.1 0.2 0.8	3.20 0.0 0.0 0.0 AL BBLE 4 4 4	3.2C 0.0 0.0 0.0 INT. 1.06 0.39 0.68 1.57	HR	7TIME 1.00 0.21 0.15 0.10	4.00 8.91 5.09 4.82
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LARDR MACHINE TRACTOR(4) HISEL HISEL TANLEM DISK SWEEP	UNIT ACRE ACRE LABOR, C	MON1 (APITAI (HLY SUIJAN .60 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	MMARY FEB 0.60 0.0 1 NERY, 0.0 1 INERY, 0.0 1 INERY, 0.0 0 INERY, 0.0	OF RECE MAR 3.20 0.0 QVERHE 0.0 TS BY M 0.0 AND VAR TAX 0.16 0.06 0.11 0.26	IPTS A APR 6.20 0.0 AD, RI 0.0 ONTH 0.0 IABLE TGTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.00 0.50 0.55 0.55 0.00 0.00 0.00 0.00	0. 9 0. GEMENT 0. 5 0. UR AIR 72 14 24 83 221 44	640 1 640 1 640 1 640 0 600 0 600 0 600 0 600 0 600 0	0.0 2.05 0.04 0.12	0.0 5.83 4.38 0.33 LUB. 0.22 0.0 0.0 0.0	0.0 0.0 0.0 TOI VARIA 2.4 0.1 0.2 0.8	3.20 0.0 0.0 0.0 AL BBLE 4 4 4	3.2C 0.0 0.0 0.0 INT. 1.06 0.39 0.68 1.57	H2	7TIME 1.00 0.21 0.15 0.10	4.00 8.91 5.09 4.82
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LAROR MACHINE TRACTOR(4) HISEL TRANCEM DISK SMEEP DRILL MO/FERT OPERATION TANCEM DISK	UNITY ACRE LABOR, C DOL. HR. CODE 4 42 35 41 1759 61	MON1 (APITAI LABC DEPR 1.05 0.52 0.91 2.12 0.80 1.65 DATE	HLY SUIJAN .60 . MACH .00 R REQUI .00 (INERY IN .00 .00 TIMES OVER	MMARY FEB 0.60 0.0 INERY, 0.0 IREMEN 0.0 FIXED SUR. .06 .02 .04 .07 LABOR HOURS	OF RECE MAR 3-20 0-0 QVERHE 0-0 TS BY M 0-16 0-16 0-16 0-10 0-21 MACHINE HOURS 0-148	IPTS A APR 6.20 O.0 AD, RI O.0 ONTH O.0 IABLE TGTA	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.50 0.55 0.55 0.00 0.00 0.00 0.00	9 0. 9 0. GEMENT 0. 5 0. UR AIR 72 14 83 21 44 EIXED (PER AC	640 1 18 FUE 1.4 0.0 0.0 0.0 0.0 0.0	0.0 2.05 0.04 0.12	0.0 5.83 4.38 0.33 LUB. 0.22 0.0 0.0 0.0	0.0 0.0 0.0 TOI VARIA 2.4 0.1 0.2 0.8	3.20 0.0 0.0 0.0 AL BBLE 4 4 4	3.2C 0.0 0.0 0.0 INT. 1.06 0.39 0.68 1.57	H2	7TIME 1.00 0.21 0.15 0.10	4.00 8.91 5.09 4.82
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND. ANNUAL CAPITAL MACHINERY LACOR MACHINE TRACTOR (4) CHISEL TANLEM DISK SWEEP OPERATION TANCEM DISK SWEEP	UNIT ACRE ACRE ACRE LABOR, C DOL. HR. CODE 4 42 35 61 1TEM NO. 1,35 4,41 4,11 4,11 4,11 4,11 4,11 4,11 4,1	MACI DEPR 1.05 0.52 0.91 2.12 0.80 1.65	HLY SUIJAN .60 .00 . MACH .00 .00 .00 .00 .00 .00 .00 .00 .00 .	MMARY FEB 0.60 0.0 INERY, 0.0 IREMEN 0.0 FIXED SUR. .06 .04 .07 LABOR HOUR S 0.122	OF RECE MAR 3-20 0-0 GVERHE 0-0 TS-BY M 0-10 0-06 0-11 0-20 MACHINE HOURS 0-148 0-148 0-149	IPTS A APR 8.20 0.0 AD, RI 0.0 ONTH 0.0 IABLE TCTA	ND EXI NAY 5-0 0-0 SK, Al 0-0 0-0 0-0 COSTS L FIXI 1-27 0-61 1-27 0-61 1-27 0-1 1-93	0.00 0.50 0.55 0.55 0.00 0.00 0.00 0.00	9 0. GEMENT 0. 5 0. UR WAIR 72 14 83 21 44 EIXEO (CPER ACCOUNTS)	640 1 18 FUE 1.4 0.0 0.0 0.0 0.0 0.0	0.0 2.05 0.04 0.12	0.0 5.83 4.38 0.33 LUB. 0.22 0.0 0.0 0.0	0.0 0.0 0.0 TOI VARIA 2.4 0.1 0.2 0.8	3.20 0.0 0.0 0.0 AL BBLE 4 4 4	3.2C 0.0 0.0 0.0 INT. 1.06 0.39 0.68 1.57	H2	7TIME 1.00 0.21 0.15 0.10	4.00 8.91 5.09 4.82
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CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND. ANNUAL CAPITAL MACHINERY LACOR MACHINE TRACTOR (4) CHISEL TANLEM DISK SWEEP OPERATION TANCEM DISK SWEEP	UNIT ACRE ACRE ACRE LABOR, C DOL. HR. CODE 4 42 35 41 59 61 ITEM NO. 4,35 4,41 4,59 4,61 4,59 4,61	MONI (APITAL MACI DEPR 1.05 0.91 2.12 0.80 1.65 DATE	HLY SULAN 1.60 O.	MMARY FEB 0.60 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY, 0.0 INERY,	O- 0 O- 0 O- 0 O- 0 O- 0 TS BY M O- 0 AND VAR TAX O- 16 O- 06 O- 11 O- 26 O- 10 O- 21 MACHINE HOURS O- 148 O- 104 O- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	IPTS A APR 8-20 0.0 AD, RI 0.0 ONTH 0.0 IABLE TGTA	ND EXI NAY 5-0 0-0 SK, Al 0-0 0-0 0-0 COSTS L FIXI 1-27 0-61 1-27 0-61 1-27 0-1 1-93	0.00 0.50 0.55 0.55 0.00 0.00 0.00 0.00	9 0. GEMENT 0. 5 0. UR WAIR 72 14 83 21 44 EIXEO (CPER ACCOUNTS)	0 43 1 40 1 18 FUE 1-4 0.0 0.0 0.0 0.0 0.0	0.0 2.05 0.04 0.12	0.0 5.83 4.38 0.33 LUB. 0.22 0.0 0.0 0.0	0.0 0.0 0.0 TOI VARIA 2.4 0.1 0.2 0.8	3.20 0.0 0.0 0.0 AL BBLE 4 4 4	3.2C 0.0 0.0 0.0 INT. 1.06 0.39 0.68 1.57	H2	7TIME 1.00 0.21 0.15 0.10	4.00 8.91 5.09 4.82

TABLE XLI
DRYLAND SMALL GRAIN GRAZE-OUT, SANDY LOAM SOIL

CATEGORY	UNITS	PRICE	QUANTITY	VALUE
PRODUCTION:	A.M.C			
GRAZED MMEAT Total receipts	AUMS	10.000	2.400	
OPERATING INPUTS:	·			
WHEAT SEED	BU .		1.000	
NITROGEN	LBS.	0.140	30.000	4.20
FHOSPHATE	LBS.	0.250	30.000	7.50
TRACTOR FUEL COST	ACRE			1.20
TRACT REPAIR COST	ACRE			0.58
TRACTOR LUBE COST	ACRE			0.18
EQUIP REPAIR COST	ACRE			0. 25
TOTAL OPERATING COST				18.91
RETURNS TO LAND, LABOR, CAPITAL, MACHINERY				
OVERHEAD, RISK, AND MANAGEMENT				5.09
CAPITAL COST:				
ANNUAL OPERATING CAPITAL			14.817	
TRACTOR INVESTMENT		0.100	8.558	0. 86
EQUIPMENT INVESTMENT		0.100	6.203	0.62
TOTAL INTEREST CHARGE				
RETURNS TO LAND, LABOR, MACHINERY,				
OVERHEAD, RISK AND MANAGEMENT				2.13
UWNERSHIP COST: (DEPRECIATION,				
TAXES, INSURANCE)				
TRACTOR	DOL.			1.02
EQUIPMENT	DOL.			0.97
TOTAL CHNERSHIP COST				1. 99
RETURNS TO LAND, LABOR, OVERHEAD,				
RISK AND MANAGEMENT				0. 14
LABCR COST:				
MACHINERY LABOR	HR.	3.000	0.885	2, 65
TOTAL LABOR COST				2.65
RETURNS TO LAND, OVERHEAD,				
RISK AND MANAGEMENT				-2.51

PANHANCLE ENERGY BUDGETS

ENTERPRISE 89 AREA AND COUNTY 10 DETAIL QQ IRIG. LEVEL Q LAND CLASS 8 GRAZING 6 MACH. COMP. _1 IRIG. SYSTEM Q PRICE VECT 1 INDIV. NUMBER _1 ANNUAL CAPITAL MONTH: 6 DATE PRINTED: 03/05/75

TABLE XLI (Continued)

LINE		PE 8	HAR	APR	5 May	JUN	7 JUL	AUG	SEP	DCT	NOA 11	12 DEC	PRICE	14 WEIGHT			17 TYPE	18 CON1
PREDUCTION	. **				MIMBE	R OF U	MITS								CODE	CONE		
1 GRAZED WHEAT	0.06	0.06	0.32	0.82	0.50		0.0	0.0	0.0	0.0	0.32	0. 32	10.000	0.0	10.	76.	2.	٥.
PERATING INPUTS					RAT	E/UNIT							PRICE	NUMBER	UNIT		TYPE	CONT
11 WHEAT SEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	5.000	0.0		176.	3.	0.
12 NITROGEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.00	0.0	0.0	0.0	0.0	0.140	0.0	12.	211.	3.	0.
13 PHOSPHATE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.00	0.0	0.0	0.0	0.0	0.250	0.0	12.	214.	3.	0.
MACHINERY REQUIR	EMENTS		1			TIMES	OV ER					í	XXXXX	XXXXX		MACH	TYPE	CON
38 CHISEL	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	42.	4.	0.
39 TANDEM DISK	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	35.	4.	o.
40 SWEEP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	4.	41.	4.	0.
41 ROD WEEDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.	59.	4.	٥.
42 DRILL WO/FERT	0.0	0.0	0.0	.0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.	61.	4.	0.
PANHAN	DLE ENERG	Y BUDG	ETS										HACHI	NERY CO	MPLEN	- N T	ı	
														MENT CO			i	
***NO NAME CHANG	ES HAVE B	EEN ST	ORED WI	ITH TH	IS BUDG	ET ***												
*** NO COPPLEMENT	CHANGES	HAVE BI	EEN STO	DRED W	ITH THI	S BUDG	FT###											
									2.00									
					F RECE	IPTS A	NO EX											
CATEGORY	UNIT	J.	AN - F	FEB	MAR	IPTS A	ND EX	JUN		 Д	AUG	SEP	OC T	NOV	DEC			DT AL
TOTAL RECEIPTS	ACRE	J.	AN 6	FEB D.60	MAR 3.20	IPTS A APR 8.20	NO EX MAY 5.0	JUA 0 - 0	. 0.	.0	0.0	0.0	0.0	3.20	3.20		24	4.00
TOTAL RECEIPTS	ACR E	0	AN 6	FEB 0.60 0.0	MAR 3.20 0.0	IPTS A APR 8.20 0.0	ND EX HAY 5.0	JUA 0 - 0	9 0.	0 43 1							24	4.00 B.91
TOTAL RECEIPTS TOTAL EXPENSES	ACR E	0	AN 6	FEB 0.60 0.0	MAR 3.20 0.0	IPTS A APR 8.20 0.0	ND EX HAY 5.0	JUA 0 - 0	9 0.	0 43 1	0.0	0.0	0.0	3.20	3.20		24	4.00
TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND,	ACR E	O O	AN (FEB 0.60 0.0	MAR 3.20 0.0	IPTS A APR 8.20 0.0	ND EX HAY 5.0	JUA 0 - 0	O . GEMEN	0 43 1	0.0 2.05	0.0	0.0	3.20	3.20		11	4.00 B.91
TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND,	ACRE ACRE LABOR, C	AP IT AL	AN 6	FEB 0.60 0.0 INERY,	MAR 3.20 0.0 OVERHE	IPTS A APR 8.20 0.0 AD, RI	ND EX HAY 5.00 0.0	JUN D 0-0 D 55 ND MANA	O . GEMEN	.0 .43 1	0.0 2.05	0.0 5.83	0.0	3.20	3.20 0.0		11	4.00 8.91 5.09
TOTAL RECEIPTS TCTAL EXPENSES RETURNS TO LAND,	ACRE ACRE LABOR, C	AP IT AL	AN 60 60 60 60 60 60 60 60 60 60 60 60 60	FEB 0.60 0.0 INERY,	MAR 3.20 0.0 OVERHE	IPTS A APR 8.20 0.0 AD, RI	ND EX HAY 5.00 0.0	JUN D 0-0 D 55 ND MANA	O. GEMENT	.0 .43 1	0.0 2.05	0.0 5.83	0.0	3.20	3.20 0.0		11	4.00 8.91 5.09
TOTAL RECEIPTS TCTAL EXPENSES RETURNS TG LAND, ANNLAL CAPITAL MACHINERY LABOR	ACRE ACRE LABOR, C DOL.	DAP IT AL	AN 60 CO	FEB D. 60 D. 0 INERY, D. 0 IREMEN	MAR 3.20 0.0 DVERHE 0.0 IS BY M	IPTS A APR 8.20 0.0 AD, RI 0.0 DNTH 0.0	ND EX MAY 5.01 0.0 SK, Al 0.0	O O O O O O O O O O O O O O O O O O O	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.0 .43 1 .40 1	0.0 2.05	0.0 5.83 4.38	0.0 0.0 0.0	0.0 0.0	0.0		14 14	4.00 8.91 5.09 4.82
TGTAL RECEIPTS TCTAL EXPENSES RETURNS TC LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINERY LABOR	DOL. HR.	DEPR	AN 60 CO	FEB 0.60 0.0 INERY, 0.0 IREMENTO	MAR 3-20 0.0 DVERHE 0.0 IS BY M 0.0	IPTS A APR 8.20 0.0 AD, RI	ND EX MAY 5.00 0.0 SK, Al 0.0 COSTS L FIX	O O O O O O O O O O O O O O O O O O O O	GEMENT GEMENT O.	.0 .43 1 .40 1 .18	0.0 2.05 0.04	0.0 5.83 4.38 0.33	0.0 0.0 0.0	0.0 0.0	3.20 0.0 0.0 0.0		24 10 10 10 10 10 10 10 10 10 10 10 10 10	4.00 8.91 5.09 4.82
TOTAL RECEIPTS TCTAL EXPENSES RETURNS TG LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE FACTOR(4)	ACRE ACRE LABOR, C DOL. HR.	AP IT AL O	AN 60 00 00 00 00 00 00 00 00 00 00 00 00	FEB D. 60 D. 0 INERY, D. 0 IREMENTO D. 0 FIXED /	MAR 3-20 0.0 OVERHE 0.0 IS BY M 0.0 AND VAR TAX 0.16	IPTS A APR 8.20 0.0 AD, RI 0.0 ONTH 0.0	ND EX MAY 5.00 0.0 SK, Al 0.0 COSTS L FIX 1.27	O O O O O O O O O O O O O O O O O O O O	O O O O O O O O O O O O O O O O O O O	.0 .43 1 .40 1 .18	0.0 2.05	0.0 5.83 4.38 0.33	0.0 0.0 0.0 0.0	3.20 0.0 0.0	0.0 0.0 0.0 INT.	1	24 11 14 17 TME	4.00 8.91 5.09 4.82
TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE TRACTOR(4) CHISEL	ACRE ACRE LABOR, C DOL. HR. CODE 4 42	DEPR 1.05	AN 60 CO	D. 60 D. 0 D. 0 INERY, D. 0 IREMEN' D. 0 FIXED /	MAR 3-20 0.0 DVERHE 0.0 IS BY M 0.0 AND VAR TAX 0.16 0.06	IPTS A APR 8.20 0.0 AD, RI 0.0 DNTH 0.0	ND EX MAY 5.01 0.0 SK, Al 0.0 COSTS L FIX 1.27 0.61	O.O.O.S ND MANA O.O.O.O.S PER HOED REP O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.	0.69 0.66EMENTO	.0 .43 1 .40 1 .18	0.0 2.05 0.04 0.12	0.0 5.83 4.38 0.33 LUB. 0.22	0.0 0.0 0.0 TCT VARIA 2.4	0.0 0.0 0.0	0.0 0.0 0.0 1NT- 1.06 0.39	1	24 11 14 17 TME 1.00	4.00 8.91 5.09 4.82
TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND. ANNUAL CAPITAL MACHINERY LABOR MACHINE TRACTOR(4) CHISEL TANDEM DISK	DOL. HR. CODE 4 42 35	0.00 AP IT AL 0.00 AP IT AL 0.00 AP IT AL 0.00 AP IT AL 0.50 AP IT AL 0.52 0.52 0.91	AN 60 (00 (00 (00 (00 (00 (00 (00 (00 (00	FEB 0.60 0.0 INERY, 0.0 IREMEN' 0.0 5 URE 0.0 0.0	MAR 3-20 0-0 DVERHE 0-0 IS BY M 0-0 AND VAR TAX 0-16 0-06	IPTS A APR 8.20 0.0 AD, RI 0.0 DNTH 0.0 IABLE TOTA	ND EX MAY 5.00 0.0 SK, AI 0.0 COSTS L FIXI 1.27 0.61	JUM D 0-0 0-5 ND MANA O-0 0-2 PER HO ED REP O-0	0.99 0.0 GEMENT 0.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	.0 .43 1 .40 1 .18	0.0 2.05	0.0 5.83 4.38 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 TCT VARIA 2.4 0.1	0.0 0.0 0.0	0.0 0.0 0.0 1NT- 1.06 0.39 0.68	1	24 11 14 17 THE .00	4.00 8.91 5.09 4.82
TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABER MACHINE TRACTOR(4) TRACTOR(4) TANCEM DISK SWEEP	ACRE ACRE LABOR. C DOL. HR. CODE 4 42 35 41	0.00 AP IT AL . 0.00 AP IT AL . 0.00 MACH! DEPR 1.05 0.52 0.91 2.12	AN 6 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TEB 0.60 0.0 INERY, 0.0 IREMEN 0.0 IXED 5UR. 06 04 .02	MAR 3-20 0.0 DVERHE 0.0 IS BY M 0.0 AND VAR TAX 0.16 0.06 0.11	IPTS A APR 8.20 0.0 AD, RI 0.0 DNTH 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JUND 0-00 0-5 ND MANA 0-0 Q-2 PER HO ED REP 0-0 0-0	0.69 0.66EMENT 0 0.65 0.61EMENT 15 0.61EMENT 17 17 17 17 17 17 17 17 17 17 17 17 17 1	.0 ,43 1 ,40 1 .18 FUE 1.40 0.0	0.04 0.12	0.0 5.83 4.38 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 TCT VARIA 2.4 0.1 0.2	0.0 0.0 0.0	3.20 0.0 0.0 0.0 1.06 0.39 0.68 1.57	1	24 10 17 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	4.00 8.91 5.09 4.82
TOTAL RECEIPTS RETURNS TO LAND. ANNUAL CAPITAL MACHINERY LABCR MACHINE RACTOR(4) HISEL HISEL HARDEM DISK SWEEP	DOL. HR. CODE 4 42 35 41 59	0.00 AP IT AL . 0.00 AP IT AL	AN 6 60 C	FEB 0.60 0.0 INERY, 0.0 IREMENT 0.0 IXED / SUR. 06 02 04	MAR 3.20 0.0 DVERHE 0.0 FS BY M 0.0 AND VAR TAX 0.16 0.06 0.11 0.26	IPTS A APR 8.20 0.0 AD, RI 0.0 DNTH 0.0 IABLE TOTA	ND EX MAY 5.00 SK, Al 0.0 0.0 COSTS L FIX 1.27 0.61 1.27 0.61 2.48 0.93	JUND 0-00 0-5 ND MANA 0-0 G-2 PER HO ED REP 0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	0.9 0.0 GEMENTO 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	.0 .43 1 .40 1 .18	0.04 0.04	0.0 5.83 4.38 0.33 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 0.0 T CT VARIA 2.4 0.1 0.2 0.8	0.0 0.0 0.0 AL BBLE 4 4	0.0 0.0 0.0 1NT- 1.06 0.39 0.68	1 0 0	24 14 17 TME .000 0.21 1.15 2.10	4.00 8.91 5.09 4.82
TGTAL RECEIPTS TCTAL EXPENSES RETURNS TG LAND,	ACRE ACRE LABOR. C DOL. HR. CODE 4 42 35 41	0.00 AP IT AL . 0.00 AP IT AL . 0.00 MACH! DEPR 1.05 0.52 0.91 2.12	AN 6 60 C	TEB 0.60 0.0 INERY, 0.0 IREMEN 0.0 IXED 5UR. 06 04 .02	MAR 3-20 0.0 DVERHE 0.0 IS BY M 0.0 AND VAR TAX 0.16 0.06 0.11	IPTS A APR 8.20 0.0 AD, RI 0.0 DNTH 0.0 IABLE TOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JUND 0-00 0-5 ND MANA 0-0 G-2 PER HO ED REP 0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	0.69 0.66EMENT 0 0.65 0.61EMENT 15 0.61EMENT 17 17 17 17 17 17 17 17 17 17 17 17 17 1	.0 ,43 1 ,40 1 .18 FUE 1.40 0.0	0.04 0.04	0.0 5.83 4.38 0.33 LUB. 0.22 0.0	0.0 0.0 0.0 0.0 TCT VARIA 2.4 0.1 0.2	0.0 0.0 0.0 AL BBLE 4 4	3.20 0.0 0.0 0.0 1.06 0.39 0.68 1.57	1 0 0	24 10 17 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	4.00 8.91 5.09 4.82
TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND. ANNUAL CAPITAL MACHINERY LABOR MACHINE TRACTOR(4) CHISEL TANDEM DISK SWEEP	ACRE ACRE LABOR, C DOL. HR. CODE 42 35 41 59 61	0.52 0.91 0.05 0.05 0.05 0.52 0.91 2.12 0.85	AN 660 (C. O.	FEB 0.60 0.0 INERY, 0.0 IREMEN' 0.0 IXED / UR. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	MAR 3-20 0-0 DVERHE 0-0 TS BY M 0-0 AND VAR TAX 0-16 0-06 0-10 0-26	IPTS A APR 8.20 0.0 AD, RI O.0 ONTH 0.0 IABLE TOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JUN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.9 0.0GEMENT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	.00 18 18 1.40 1 1.40 0.00 0.00 0.00 0.00 0.00 0.	0.04 0.04	0.0 5.83 4.38 0.33 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 0.0 T CT VARIA 2.4 0.1 0.2 0.8	0.0 0.0 0.0 AL BBLE 4 4	0.0 0.0 0.0 1NT- 1.06 0.39 0.68	1 0 0	24 14 17 TME .000 0.21 1.15 2.10	4.00 8.91 5.09 4.82
TOTAL RECEIPTS TCTAL EXPENSES RETURNS TO LAND. ANNUAL CAPITAL MACHINERY LABOR MACHINE TRACTOR(4) CHISEL TANGEM DISK SWEEP OPERATION	ACRE ACRE LABOR, C DOL. HR. CODE 4 42 35 41 59 61.	0.00 AP IT AL 0.0 LABOR 0.0 MACH! DEPR 1.05 0.52 0.91 2.12 0.80 1.65	AN (A CONTROL OF CONTR	FEB D. 60 D. 0 INERY, D. 0 TXED SUR - .06 .02 .04 .09 .04 .07	MAR 3-20 0-0 DVERHE 0-0 IS BY M 0-0 NND VAR TAX 0-16 0-06 0-11 0-26 0-10 0-21	IPTS A APR 8.20 0.0 AD. RI 0.0 ONTH 0.0 IABLE TOTA	NO EX MAY 5.00 0.0 0.0 0.0 0.0 COSTS L FIXI 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0	JUN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.00 18 FUE 1.4 0.0 0.0 0.0 0.0 0.0 COSTS	0.04 0.04	0.0 5.83 4.38 0.33 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 0.0 T CT VARIA 2.4 0.1 0.2 0.8	0.0 0.0 0.0 AL BBLE 4 4	0.0 0.0 0.0 1NT- 1.06 0.39 0.68	1 0 0	24 14 17 TME .000 0.21 1.15 2.10	4.00 8.91 5.09 4.82
TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR MACHINE TRACTOR(4) CHISEL TANCEM DISK SWEEP ROPER CONTROLL OPERATION TANCEM DISK TANCEM DISK	ACRE ACRE LABOR, C DOL. HR. CODE 4 4 2 35 41 59 61 ITEM NOA:	DATE C	AN 6.60 C. O C. REQUIDO C. INERY F. INS. O. O. O. O. O. FIMES L. DVER +	FEB 0.60 0.00 INERY, 0.00 INER	MAR 3-20 0-0 DVERHE 0-0 DVERHE 0-0 AND VAR TAX 0-16 0-06 0-11 0-26 0-10 0-21 4ACHINE HOURS	IPTS A APR 8.20 0.0 AD, RI O.0 ONTH O.0 IABLE TOTA	ND EX MAY 5.00 0.0 SK, Ai 0.0 0.0 COSTS L FIXI 1.27 0.61 1.06 2.48 0.93 1.93 OIL, LIR R PER	JUN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.644 0.649 0.649 0.649 0.649	60,43 1 640 1 640 1 640 0 600 0	0.04 0.04	0.0 5.83 4.38 0.33 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 0.0 T CT VARIA 2.4 0.1 0.2 0.8	0.0 0.0 0.0 AL BBLE 4 4	0.0 0.0 0.0 1NT- 1.06 0.39 0.68	1 0 0	24 14 17 TME .000 0.21 1.15 2.10	4.00 8.91 5.09 4.82
TOTAL RECEIPTS TCTAL EXPENSES RETURNS TO LAND, ANNIAL CAPITAL MACHINET LABER MACHINE TRACTOR(4) CHISEL TANCEM DISK SWEEP ROD WEEDER DRILL WO/FERT OPERATION TANCEM DISK SWEEP	ACRE ACRE LABOR, C DOL. HR. CODE 4 42 35 41 59 61 ITEM NOA:	0.00 AP IT AL 0.00 AP IT A	AN 6.40 C C C C C C C C C C C C C C C C C C C	FEB 0.60 0.00 INERY, 0.00 INER	MAR 3-20 0-0 DVERHE 0-0 FS BY M 0-0 S BY M 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-11 0-26 0-10 0-21	IPTS A APR 8.20 O.0 AD. RI O.0 O.0 O.0 O.0 IABLE TOTA	ND EX MAY 5.00 0.00 SK, All 0.00 COSTS L FIXI 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.93 1.93	JUN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.64 0.64 0.64 0.64	40 1 40 1 18 FUE 1.40 0.0 0.0 0.0 0.0	0.04 0.04	0.0 5.83 4.38 0.33 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 0.0 T CT VARIA 2.4 0.1 0.2 0.8	0.0 0.0 0.0 AL BBLE 4 4	0.0 0.0 0.0 1NT- 1.06 0.39 0.68	1 0 0	24 14 17 TME .000 0.21 1.15 2.10	4.00 8.91 5.09 4.82
TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNIAL CAPITAL HACHINERY LABOR MACHINE TRACTOR(4) CHISEL TANCEM DISK SWEEP ROO WEEDER DRILL WG/FERT OPERATION TANCEM DISK SWEEP ORIGHNALL OPERATION TANCEM DISK SWEEP ORIGHNALL OPERATION TANCEM DISK SWEEP	ACRE ACRE LABOR, C DOL. HR. CODE 4 42 35 41 59 61 1TEN NOX. 4, 35 4, 41 4, 59 4, 55 4, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 55 6, 5	0.00 AP IT AL 0.00 AP IT A	AN 6.60 C. 60 C. 6	FEB 0.60 0.0 INERY, 0.0 (REMEN') 0.0 FIXED /6 50R - 6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	MAR 3-20 0.0 DVERHE 0.0 TS BY M 0.16 0.11 0.26 0.11 0.26 0.11 0.21 4ACHINE HOURS 0.101 0.101 0.101	PUEL, REPAI	ND EX MAY 5.00 0.0 0.0 0.0 0.0 0.0 0.0 0.5 1.27 0.6 1.248 1.93	JUN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.64 0.65 0.65 0.66 0.66 0.66 0.66	60.00 TS.	0.04 0.04	0.0 5.83 4.38 0.33 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 0.0 T CT VARIA 2.4 0.1 0.2 0.8	0.0 0.0 0.0 AL BBLE 4 4	0.0 0.0 0.0 1NT- 1.06 0.39 0.68	1 0 0	1/ 1/ 1/ TIME .000 0.21 0.15 0.10	4.00 8.91 5.09 4.82
TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINE TRACTOR(4) TRACTOR(4) TRACTOR(4) TRACTOR(4) TRACTOR(4) TOPERATION TANDEM DISK SWEEP OPERATION TANDEM DISK SWEEP	ACRE ACRE L ABOR, C DOL. HR. CODE 4 2 35 41 59 61 1TEM NG2:	DATE O	AN 6.60 C. 60 C. 6	FEB 00.00 (INERY, 00.00 (INERY), 00.00 (INERY), 00.00 (INER) (INE	MAR 3-20 0-0 DVERHE 0-0 IS BY M 0-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-0	IPTS A APR 8 -20 O -0 O O O O O O O O O O O O O O O O O	ND EX MAY 5.00 0.00 SK, All 0.00 COSTS L FIXI 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.61 1.27 0.93 1.93	JUN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.64 0.64 0.64 0.64	643 1 1 18 1 40 1 1 18 1 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.04 0.04	0.0 5.83 4.38 0.33 LUB. 0.22 0.0 0.0	0.0 0.0 0.0 0.0 T CT VARIA 2.4 0.1 0.2 0.8	0.0 0.0 0.0 AL BBLE 4 4	0.0 0.0 0.0 1NT- 1.06 0.39 0.68	1 0 0	1/ 1/ 1/ TIME .000 0.21 0.15 0.10	4.00 8.91 5.09 4.82

TABLE XLII

CONVENTIONAL TILLAGE CORN GRAIN ON SANDY LOAM SOIL UNDER CIRCULAR SPRINKLER IRRIGATION

CATEGORY	UNITS	PRICE	QUANTITY	VALUE
PROCUCT ION:				
CCRN	BU.	1.380	120.000	165.60
TOTAL RECEIPTS				165.60
PERATING INPUTS:				
CORN SEED	LBS.	0.520	20.000	10.40
NITROGEN	LBS.	0.300	100.000	30.00
NITROGEN	LBS.	0.140	100.000	14.00
PHOSPHATE	LBS.	0.250	50.000 2.000	12.50
PRE-MERGE HERB	LBS.	2.820	2.000	5.64
INSECTICIDE	ACRE	8.000	1.000	8. 00
CUSTOM COMBINE	BU.	0.200	1.000 120.000 120.000	24.00
CUSTOM HAULING	BU.	0.100	120.000	12.00
	ACRE			2. 69
TRACT REPAIR COST	ACRE	* *		1.30
	ACRE	*		0.40
	ACRE			0. 82
IRRIG FUEL COST	ACRE			8.13
IRRIG LUBE COST	ACRE			1. 63
IRRIG REPAIR COST	ACRE			10.25
TOTAL OPERATING COST	MUNE			141.76
				141.10
RETURNS TO LAND, LABOR, CAPITAL, MACHINERY, OVERFEAD, RISK, AND MANAGEMENT		•		23.84
CAPITAL COST:				
ANNUAL CPERATING CAPITAL		0.100	42.633	4.26
TRACTOR INVESTMENT		0-100	19, 173	1. 92
ECUIPMENT INVESTMENT		0.100	42.633 19.173 8.519 96.024	0.85
IRRIGATION SYSTEM INVESTMENT		0.100	96.024	9.60
TOTAL INTEREST CHARGE		36 230	,500021	16.63
RETURNS TO LAND, LABOR, MACHINERY, OVERHEAD, RISK AND MANAGEMENT				7. 20
OAFULFADA VIZA MAD BAMADENCAL				
OWNERSHIP COST: (DEPRECIATION, TAXES, INSURANCE)				
	DOL.			2.29
	DOL.			1.36
	DOL.			25.05
IRRIGATION SYSTEM	DUC.			
TOTAL CWNERSHIP COST				28.70
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				-21.50
ABCR COST:				
LABCR COST: PACHINERY LABOR	HR.	3.000	2.094	6.28
LABCR COST: PACHINERY LABOR	HR.	3.000 3.000	2.094	6 • 28 3 • 74
LABCR COST: PACHINERY LABOR	HR. HR.	3.000 3.000	2.094 1.248	6 • 28 3 • 74 10 • 03
LABOR COST: PACHINERY LABOR IRRIGATION LABOR	HR. HR.	3.000 3.000	2.094 1.248	

PANHANCLE ENERGY BUDGETS

ENTERPRISE 72 AREA AND COUNTY 12 DETAIL QQ IRIG. LEVEL & LAND CLASS B GRAZING 2 MACH. CCMP. 1 IRIG. SYSTEM 4 PRICE VECT 1 INDIV. NUMBER Q ANNUAL CAPITAL MONTH:10 DATE PRINTED: 03/05/75

TABLE XLII (Continued)

	1 JAN	Z FEB	3 MAR	APR	5 MAY	- 6 JUN	7		9 SEP	10 QCT	11 NOV	12 DEC	13	14	15 T UNIT	16	17	18
INE	JAR	FEB	MAR	AFR	MAT.	304	JUL	AUG	25.	ucı	MITA	DEC	PRICE	# C 1GH		COOL	11176	COMP
ROTUCT ION					MIKA	ER CF (INTTS								CODE	0001		
1 CORN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	120.00	0.0	0.0	1.360	0.0	2.	72.	2.	0.
of the second second		-																
PERATING INPUTS					RAT	E/UNI1	Ī		٠.	144			PRICE		R UNIT		TYPE	CONT
			2.2								12.5				S CODE		_	_
1 CORN SEED 2 NITROGEN	0.0	0.0	0.0		20.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.520	0.0		172.	3.	٥.
3 AITROGEN	0.0	0.0		100.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.300	0.0		211.	3.	٥.
	0.0	0.0	0.0	0.0	0.0	0.0	50.00		0.0	0.0	0.0	0.0	0.140	0.0		211.	3.	٥.
4 PHOSPHATE 5 PRE-HERGE HERB	0.0	0.0	0.0	50.00		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.250	0.0		214.	3.	0.
6 INSECTICIOE	0.0	0.0	0.0	2.00	0.0	0.0	0.0 0.50	0.0	0.0	0.0	0.0	0.0	2.820 8.000	0.0		254. 240.	3. 3.	0.
7 CUSTOM COMBINE		0.0	0.0	0.0	0.0	0.0	0.0	0.0		120.00	0.0	0.0	0.200	0.0		305	3.	e.
8 CUSTOM HAULING		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	120.00	0.0	0.0	0.100	0.0	٠,٠	30	3.	c.
			•••	500				***	•••		•••	•••						
ACTINERY REQUIRE	MENTS					TIMES	OVER						XXXXX	XXXXX	POWER	CODE	TYPE	CONT
8 STALK SHREDDER		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00		0.0	0.0	4.	81.	4.	٥.
9 OFFSET DISK	0.0	0.0	1.00		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	٠.	37.	4.	٥.
O CHISEL	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	42.	4.	٥.
1 CRY FERT SPREA		0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	٠.		4.	٠.
Z ANHYDROUS APPL		0.0	0.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	4.	73.	4.	0.
3 SPRAYER	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.	7 .	4.	٥.
4 CULTIBEDDER PL		0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	61.	4.	٥.
5 FOTARY HOE	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0. 0	0.0	0.0	0.0	0.0	0.0	4.	5/.	4-	٥.
9 ACIN IRRIG WAT	ER 0.0	0.0	0.0	6.00	0.0	7.20	7.20	3.60	ŏ. o	0.0	0.0	0.0						
															`			
PANHAND	LE ENERG	Y BUDGI	ETS										FOUT	INERY C	OMPLEM OMPLEM	ENT ENT	1	
																	-	
** NO NAME CHANGE	S HAVE B	EEN STO	DRED W	ITH TH	IS BUDG	ET+++									-			
***NO COMPLEMENT	CHANGES	HAVE BE	EEN ST	00E0 H		S PUDO	CTAAA											
THE COMPLETE				OK. C. O.														
		Maria																
CATEGORY	UNIT	MONT			OF RECI	IPTS A	NO EXP				AUG	SEP	CCT	NOV	DEC		 1	UTAL
CATEGORY OTAL RECEIPTS			AN	FEB	MAR	IPTS A	ND EXP	AUL				SEP	CCT 165-60					UTAL
OTAL RECEIPTS	ACR E	. 0	AN •0	FEB 0.0	MAR O.O	APR 0.0	ND EXP	4UL) (0.0	0.0	0.0	165.60	0.0	DEC 0.0 0.0		16	
CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND,	ACR E	0	AN •0 •0	FEB 0.0 0.0	MAR 0.0 0.40	IPTS A APR 0.0 53.42	NO EXP MAY 0.0	AUL 0 • 0 7 • 6 1	3 1	0.0 7.79 1					0.0		16	5.60
OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND,	ACRE ACRE LABOR, C	O O APITAL	AN •0 •D • Mach	FEB 0.0 0.0 INERY,	MAR 0.0 0.40 OVERHI	APR 0.0 53.42	MAY 0.0 16.11	NUL D.O T.O J	3 L GEME	7.79 1 NT	0.0 0.78	0.0	165.60 36.00	0.0	0.0 0.0		1 6 1 4 2	5.60 1.76 3.84
OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND,	ACR E	O.	AN O O MACH	FEB 0.0 0.0 INERY,	MAR 0.0 0.40 OVERHI	APR 0.0 53.42 EAD, RI	NO EXP MAY 0.0	NUL D.O T.O J	3 L GEME	7.79 1 NT	0.0	0.0	165.60	0.0	0.0		1 6 1 4 2	5.60
OTAL RECEIPTS OTAL EXPENSES EETURNS TO LAND,	ACRE ACRE LABOR, C	O. LABOI	AN .0 .0 .0 .MACH	FEB 0.0 0.0 INERY, 0.0	MAR 0.0 0.40 OVERHI 0.24	EIPTS /APR 0.0 53.42 EAD, RI	0.0 16.11 15K, AM	JUN 0. 0 1 6. 7 ND MANA	73 1 IGEMEI	7. 79 1 NT	0.0 0.78	0.0	165.60 36.00	0.0	0.0		16	5.60 1.76 3.84 2.63
OTAL RECEIPTS OTAL EXPENSES SETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR	ACRE ACRE LABOR, C	O LABO	AN O O MACH O R REQU	FEB 0.0 0.0 INERY, 0.0 IREMEN 0.0	0.0 0.40 0VERHI 0.24 TS BY F	26.71	0.0 16.11 (SK, AM	JUN 0. C 1 6. 7 ND MANA 1 2. 3	GEME	7. 79 1 NT 4. 45	0.0 0.78 1.80	0.0	0.0	0.0 0.53	0.0		16	2.63
OTAL RECEIPTS OTAL EXPENSES LETURNS TO LAND, INNUAL CAPITAL MACHINERY LABOR RR IGATION LABOR	ACRE ACRE LABOR, C DOL.	O APITAL	AN O HACH O R REQU	FEB 0.0 0.0 INERY, 0.0 IREMEN 0.0	0.24 TS BY F 0.16 0.0	26.71 O.0 53.42 EAD, RI 26.71	0.0 16.11 (SK, AM	JUN 0. C 1. 6. 7 ND MANA 1. 2. 2	73 1 GEMEI	0.0 (7.79 1 NT 4.45	0.0 0.78 1.80	0.0	0.0	0.0 0.53 0.49	0.0		16	2.63 2.09 1.25
OTAL RECEIPTS OTAL EXPENSES LETURNS TO LAND, INNUAL CAPITAL MACHINERY LABOR RR IGATION LABOR	ACRE ACRE LABOR, C	O APITAL	AN O HACH O R REQU	FEB 0.0 0.0 INERY, 0.0 IREMEN 0.0	0.0 0.40 0VERHI 0.24 TS BY F	26.71	0.0 16.11 (SK, AM	JUN 0. C 1. 6. 7 ND MANA 1. 2. 2	73 1 GEMEI	0.0 (7.79 1 NT 4.45	0.0 0.78 1.80	0.0	0.0	0.0 0.53	0.0		16	2.63
OTAL EPERSES OTAL EXPENSES ETURNS TO LAND, INNUAL CAPITAL IACHINERY LABOR RR IGATION LABOR OTAL LABOR	ACRE ACRE LABOR, C DOL.	APITAL	AN O D O MACH O R REQU	FEB 0.0 0.0 INERY, 0.0 IR EMEN 0.0 0.0	0.0 0.40 0VERHI 0.24 TS BY F 0.16 0.0 0.16	26.71 IONTH 0.31 0.42	0.00 16.11 15K, AM 6.71	JUN 0. 0 6. 7 ND MANA 2. 3 0 0.1 0.3	3 1 IGENE	0.0 7.79 1 NT 4.45	0.0 0.78 1.80 0.31 0.19 0.50	0.0	0.0	0.0 0.53 0.49 0.21 0.0 0.21	0.0		16	2.63 2.09 1.25 3.34
OTAL EPERISES OTAL EMPENSES ETURNS TO LAND, INNUAL CAPITAL MACHINERY LABOR RR 16ATION LABOR OTAL LABOR	ACRE ACRE LABOR, C DOL.	APITAL	AN O O O O O O O O	FEB 0.0 0.0 INERY, 0.0 IR EMEN 0.0 0.0	0.24 TS BY P 0.16 0.0 0.16	EIPTS A APR 0.0 53.42 EAU, RI 26.71 CONTH 0.11 0.31 0.42	0.00 EXP MAY 0.00 16.11 ISK, AM 6.71 0.80 0.0	JUN 0- C 1 6- 7 ND MANA 1 2- 2 0 0-1 0 0-3 0 0-5	73 1 AGEMEI 4	0.0 7.79 1 NT 4.45	0.0 0.78 1.80	0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.53 0.49 0.21 0.0 0.21	0.0		16	2.63 2.09 1.25
OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR IRR IGATION LABOR OTAL LABOR IRR IGATION WATER	ACRE ACRE LABOR, C DOL.	APITAL	AN O O R REQU O O O	FEB 0.0 0.0 INERY, 0.0 IR EMEN 0.0 0.0 0.0 FIXED	0.24 0.24 0.24 0.24 TS BY 0.16 0.0 0.16	EIPTS APR 0.0 53.42 EAU, RI 26.71 CONTH 0.11 0.31 0.42 6.00	0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (JUN 0. C 1. 6. 7 ND MANA 1. 2. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	73 1 GEMEJ 14 9 1 77 (166 1	0.0 7.79 1 NT 4.45 0.31 0.37 0.68	0.0 0.78 1.60 0.31 0.19 0.50	0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.53 0.49 0.21 0.0 0.21	0.0		16	2.63 2.63 2.63 2.09 1.25 3.34
OTAL EPCEIPTS OTAL EXPENSES LETURNS TO LAND, INNUAL CAPITAL VACHINERY LABOR OTAL LABOR OTAL LABOR RR IGATION WATER MACHINE	ACRE ACRE LABOR, C	LABOR OF MACH!	AN O O NACH	FEB 0.0 0.0 INERY, 0.0 IR EMEN 0.0 0.0 0.0 0.0	0.040 0.40 0.24 0.24 TS BY P 0.16 0.0 0.16	26.71 (IONTH 0.11 0.31 0.42 6.00	0.00 (0.01) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.0	JUN 0. C 0. C 1. C	13 1 IGEME 14 9 17 16 10 10 10 10 10 10 10 10 10 10 10 10 10	7.20	0.0 0.78 1.80 0.31 0.19 0.50	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 VAR I	0.0 0.53 0.49 0.21 0.0 0.21 0.0	0.0 0.0 0.0 0.0 0.0		16 14 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.63 2.63 2.63 2.09 1.25 3.34
OTAL EXPENSES ETURNS TO LAND, NNUAL CAPITAL ACHINERY LABOR RRIGATION LABOR OTAL LABOR RRIGATION WATER MACHINE RACTOR(2)	ACRE ACRE LABOR, C	LABDI O. CAPITAL	AN O O R REQU O O O INERY N	FEB 0.0 0.0 INERY, 0.0 IREMEN 0.0 0.0 0.0 FIXED SUR.	0.24 0.24 0.24 0.24 TS BY P 0.16 0.0 0.16	26.71 1000 53.42 EAU, RI 26.71 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000	0.0 16.11 15K, AM 6.71 0.80 0.0 0.80	JUN 0. C 1 6. T 1 1 2 . 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	73 1 14 14 14 19 17 16 10 10 10 10 10 10 10 10 10 10 10 10 10	7.79 1 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07	0.0 0.78 1.80 0.31 0.19 0.50	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.53 0.49 0.21 0.0 0.21	0.0 0.0 0.0 0.0 0.0 0.0 0.0		14 14 2 	2.63 2.63 2.63 2.09 1.25 3.34
OTAL EXPENSES ETURNS TO LAND, NNUAL CAPITAL ACHINERY LABOR RR IGATION LABOR OTAL LABOR RR IGATION WATER MACHINE RACTOR(2) RACTOR(2)	ACRE ACRE LABOR, C	JJ 0. 0. APITAL, 0. LABOI 0. 0. 0. 0. MACH! DEPR 0.73 1.05	AN O O O O O O O O O O O O O O O O O O O	FEB 0.0 0.0 INERY, 0.0 IR EMEN 0.0 0.0 0.0 0.0	0.040 0.40 0.24 0.24 TS BY P 0.16 0.0 0.16	APR 0.0 53.42 EAU, RI 26.71 CONTH 0.11 0.31 0.42 6.00	0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (JUN 0. C 1	73 1 14GEME 14 17 16 16 10 10 10 10 10 10 10 10 10 10 10 10 10	7.79 1 4.45 0.31 0.37 0.68 7.20	0.0 0.78 1.80 0.31 0.19 0.50	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VARII	0.0 0.53 0.49 0.21 0.0 0.21	0.0 0.0 0.0 0.0 0.0		16 14 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.63 2.63 2.63 2.09 1.25 3.34
OTAL EXPENSES ETURNS TO LAND, NNUAL CAPITAL ACHINERY LABOR RRIGATION LABOR OTAL LABOR RRIGATION WATER MACHINE RACTOR(2) RACTOR(4) TALK SAREDDER	ACRE ACRE LABOR, C DOL. HR. HR. HR. CODE 2 4 81	JJ 0. 0. APITAL, 0. LABDI 0. 0. 0. MACH! DEPR 0.73 1.05	AN O O O O O O O O O O O O O O O O O O O	FEB 0.0 0.0 INERY, 0.0 IREMEN 0.0 0.0 0.0 0.0 FIXED SUR. .04	0.24 TS BY F 0.16 0.0 AND VAR TAX 0.11 0.16	26.71 (O.11 0.31 26.71 (O.11 0.31 0.42 6.00 (TABLE TOTAL)	0.0 16.11 15K, AM 6.71 0.80 0.0 0.80 0.0 0.80	JUN 0. C 0.	73 1 14GEMEJ 77 (66) 10 UR 14 P 50 72 33	7.20 FUE 1.0 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	0.0 0.78 1.80 0.31 0.19 0.50	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 100 VARI	0.49 0.49 0.21 0.0 0.21 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.39		14 2 4 4 7 IME 1.00	2.63 2.63 2.63 2.09 1.25 3.34
OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND, NNUAL CAPITAL ACHINERY LABOR OTAL LABOR OTAL LABOR MACHINE RACTOR(2) RACTOR(4) TALK SAREDDER FFSET OISK HISEL	ACRE ACRE LABOR, C DOL. HR. HR. HR. INCH	JJ 0. 0. APITAL, 0. LABOI 0. 0. 0. 0. MACH! DEPR 0.73 1.05	AN O O O O O O O O O O O O O O O O O O O	FEB 0.0 0.0 INERY, 0.0 IREMEN 0.0 0.0 0.0 FIXED SUR. 0.04	0.40 0.40 0.40 0.24 TS BY F 0.16 0.0 0.16	APR 0.0 53.42 EAU, RI 0.11 0.31 0.42 6.00	0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (0.00 (JUN 0. C 0.	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.79 1 4.45 0.31 0.37 0.68 7.20	0.0 0.78 1.80 0.31 0.19 0.50	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VARII	0.9 0.53 0.49 0.21 0.0 0.21 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0		16 14 2 4 4 7 T IME 1.00 0.13	2.63 2.63 2.63 2.09 1.25 3.34
OTAL EPERPETS OTAL EXPENSES ETURNS TO LAND, INNUAL CAPITAL MACHINERY LABOR OTAL LABOR OTAL LABOR ARRIGATION WATER MACHINE RACTOR(4) TALK SHREDDER JEFSET DISK HISEL	ACRE ACRE LABOR, C DOL. HR. HR. HR. SINCH	JA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AN .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	FEB 0.0 0.0 INERY, 0.0 IREMEN 0.0 0.0 0.0 FIXED SUR. 0.04 0.06 0.07	0.24 TS BY P 0.16 0.0 0.16 0.0 0.16 0.0 0.16 0.0 0.10 0.0 0.10 0.0 0.10	APR 0.0 53-42 EAD, RI 0.42 6.00 RIABLE TOTAL	0.00 16.11 15K, AM 6.71 0.80 0.0 0.80 0.0 0.80 1.27 0.68 1.27 0.68 1.27	JUN 0. 0 0.	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.20 FUE 1.0 0.0 1.4 0.0 0.0 0.0	0.0 0.78 1.80 0.31 0.19 0.50	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.53 0.49 0.21 0.0 0.21 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.74 1.06 0.74		14 14 2 4 7 T IME 1 . 00 1 . C C	2.63 2.63 2.63 2.09 1.25 3.34
OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND, NNUAL CAPITAL ACHIMERY LABOR RE IGATION LABOR OTAL LABOR RACIOR(A) RACIOR(A) TALK SHREDDER HESET OLSK HISEL HISEL HISEL HISEL HISEL HISPER HISEL	ACRE ACRE LABOR, C DOL. HR. HR. HR. 2 LODE 2 4 81 37 42	JA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AN .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	FEB 0.0 0.0 INERY, 0.0 IR EMEN 0.0 0.0 0.0 FIXED SUR. .04 .04 .02 .02	MAR 0.0 0.40 0.40 0.24 TS BY F 0.16 0.0 0.16 0.0 AND VAR TAX 0.11 0.12 0.00 0.21	APR 0.0 53.42 EAD, RI 26.71 10NTH 0.31 0.42 6.00	0.00 0.00 16.11 15K, AM 6.71 0.80 0.00 0.80 0.00 0.80 1.27 0.68 1.27 0.68	JUN 0. CO 6. 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 1 6 9 7 6 6 9 7 7 8 9 9 7 7 8 9 9 9 9 9 9 9 9 9 9 9	7-20 FUE 1.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.78 1.80 0.31 0.19 0.50	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.9 0.53 0.49 0.21 0.0 0.21 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.39		14 14 2 4 4 7 T IME 1 . 00 1 . 00 0 . 13 0 . 21	2.63 2.63 2.63 2.09 1.25 3.34
OTAL EPCEIPTS OTAL EXPENSES ETURNS TO LAND, INNUAL CAPITAL IACHINERY LABOR RRIGATION LABOR OTAL LABOR RRIGATION WATER MACHINE RACTOR(2) TALL SHREDDER JFSET DISK HISEL HISEL RY FERT SPREAD NHYDROUS APPLIC PRAYER	ACRE ACRE LABOR, C DOL. HR HR HR INCH CODE 2 4 81 37 42 71	JAPITAL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AN .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	FEB 0.0 0.0 INERY, 0.0 IREMEN 0.0 0.0 0.0 FIXED SUR. .04 .06 .07 .02	MAR 0.0 0.40 0.40 0.24 TS BY P 0.16 0.0 0.16 0.0 AND VAR TAX 0.11 0.12 0.00 0.21 0.00	26-71 (ONTH 0-11 0-42 6-00 (TABLE TOTA	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	JUN 0. CO 6. 17 ND MANA 1. 2. 3 D 0. 1	9 1 6 9 7 6 10 UR 9 7 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10	7. 79 1 4. 45 	0.0 0.78 1.80 0.31 0.19 0.50	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.53 0.49 0.21 0.0 0.21 0.0 7AL ABL E 99 144 33 33 14	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	,	14 14 2 4 7 T IME 1 . CO 0 . 18 0 . 21 0 . 09	2.63 2.63 2.63 2.09 1.25 3.34
OTAL EXPENSES ETURNS TO LAND, NNUAL CAPITAL ACHINERY LABOR RR IGATION LABOR OTAL LABOR RR IGATION MATER MACHINE RACTOR(2) TALK SREDDER FFSET DISK HISEL RY FERT SPREAD RNYPROUS APPLIC PRAYER ULTISEDDER PLNY	ACRE ACRE LABOR, C DOL. HR. HR. HR. 1NCH CODE 2 4 81 37 74 42 71 73 74 67	JA 0 0 APITAL 0 0 0 0 0 0 MACH! DEPR 0 0 7 3 1 0 0 5 0 0 5 2 0 0 6 8 0 0 5 2	NACH	FEB 0.0 0.0 INERY. 0.0 INERY. 0.0 0.0 0.0 0.0 FIXED SUR. 0.04 0.05 0.03 0.03 0.05	MAR 0.0 0.40 0.40 0.24 0.24 TS BY F 0.16 0.0 0.16 0.0 0.16 0.0 0.16 0.0 0.16 0.0 0.16 0.0 0.16	APR 0.0 53.42 53.42 54.71 10NTH 0.11 0.31 0.42 6.00	0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0	JUN 0. CC 6. 7. 7. 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.20 FUE 1.00 1.44 0.00 0.00 0.00 0.00 0.00	0.0 0.78 1.80 0.31 0.19 0.50 3.60	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.16 0.22 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.9 0.53 0.49 0.21 0.0 0.21 0.0 IAL ABLE 19 14 33 33 14 29 31	0.0 0.0 0.0 0.0 0.0 0.0 0.74 1.06 0.39 1.24 0.43	;	16 14 2 2 4 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4	2.63 2.63 2.63 2.09 1.25 3.34
OTAL EXPENSES ETURNS TO LAND, INNUAL CAPITAL ACHINERY LABOR RRIGATION LABOR OTAL LABOR RRIGATION WATER MACHINE RACTOR(2) RACTOR(4) TALK SAREDDER FFSET DISK HISEL RY FERT SPREAD RRYPER PRAYER ULTIBEDDER PLNT	ACR E ACRE LABOR, C DOL. HR. HR. HR. INCH CODE 2 4 81 37 42 71 73 74 77 77	JAPITAL O.APITAL O.APITA	NACH	FEB 0.0 0.0 1NERY. 0.0 IREMEN 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	MAR 0.0 0.40 0.40 0.24 TS BY P 0.16 0.0 0.16 0.0 0.16 0.0 0.16 0.0 0.16	APR 0.0 53.42 53.42 54.71 10NTH 0.11 0.31 0.42 6.00	0.0 16.11 15K, AM 6.71 0.80 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	JUN 0. CO 6. T.	3 1 1 GENEUR 24 9 7 7 6 6 9 7 7 6 6 9 9 9 9 9 9 9 9 9 9	7.20 FUE 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.78 1.80 0.31 0.19 0.50 3.60	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.9 0.53 0.49 0.21 0.0 0.21 0.0 1AL ABLE 19 14 33 33 33 34 44 177	0.0 0.0 0.0 0.0 0.0 0.0 0.74 1.06 0.39 1.249 0.51 0.49		2 / TIME 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 /	2.63 2.63 2.63 2.09 1.25 3.34
OTAL EPCEIPTS OTAL EMPENSES LETURNS TO LAND, INNUAL CAPITAL MACHINERY LABOR OTAL LABOR RR IGATION WATER MACHINE RACTOR(2) RACTOR(4) RACTOR(4) RESET DISK HISEL RY FERT SPREAD RNYDROUS APPLIC PRAYER LUTIBEDDER PLNY	ACR E ACRE LABOR, C DOL. DOL. HR. HR. HR. INCH CODE 2 4 81 37 42 71 73 74 67 57 57	0.00 APITAL	NACH	FEB 00.0 0.0 0.0 INERY, 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	MAR 0.0 0.40 0.40 0.24 TS BY F 0.16 0.0 0.16 0.0 AND VAR TAX 0.11 0.12 0.00 0.21 0.02 0.01 0.01 0.02	26-71 IONTH 0-10 0-42 6-00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	JUN 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.20 FUE 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.78 1.80 0.31 0.19 0.50 3.60	0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.16 0.22 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 VARII 1.6 2.4 0.0 0.0	0.9 0.53 0.49 0.21 0.0 0.21 0.0 1AL ABLE 19 14 33 33 33 34 44 177	0.0 0.0 0.0 0.0 0.0 0.74 1.06 0.39 1.24 0.39 0.51 0.43 0.31		22 27 IME 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.63 2.63 2.63 2.09 1.25 3.34
OTAL EXPENSES ETURNS TO LAND, INNUAL CAPITAL ACHINERY LABOR RRIGATION LABOR OTAL LABOR RRIGATION WATER MACHINE RACTOR(2) RACTOR(4) TALK SAREDDER FFSET DISK HISEL RY FERT SPREAD RRYPER PRAYER ULTIBEDDER PLNT	ACR E ACRE LABOR, C DOL. DOL. HR. HR. HR. INCH CODE 2 4 81 37 42 71 73 74 57	0.APITAL 0.APITAL 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	AN	FEB 00.0 0.0 INERY, 0.0 IR EMEN 0.0 0.0 0.0 0.0 0.0 FIXED SUR. 0.04 0.02 0.03 0.03 0.03 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.05	MAR 0.0 0.40 0.40 0.24 TS BY P 0.16 0.0 0.16 0.0 0.16 0.0 0.10 0.22 0.00 0.00 0.00 0.00 0.00	EIPTS / APR 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.00 COSTS L. FIXE 0.88 1.27 0.68 1.94 0.61 0.86 0.42 0.56	JUND 0.0 C.	13 11 IGEMEU 24 9 77 66 100 UUR F 77 766 100 100 100 100 100 100 100 100 100 1	7.20 FUE 1.0-0 1.4-45 0.31 0.37 0.68 7.20 FUE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.0 0.78 1.80 0.31 0.19 0.50 3.60	0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.16 0.22 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 VARII 1.6 2.4 0.0 0.0	0.9 0.53 0.49 0.21 0.0 0.21 0.0 1AL ABLE 19 14 33 33 33 34 44 177	0.0 0.0 0.0 0.0 0.0 0.74 1.06 0.39 1.24 0.39 0.51 0.43 0.31		22 27 IME 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.63 2.63 2.63 2.09 1.25 3.34
OTAL EXPENSES ETURNS TO LAND, INNUAL CAPITAL IACHINERY LABOR RRIGATION LABOR OTAL LABOR RRIGATION HATER MACHINE RACTOR(2) TALK SPREDDER FFSET DISK HISEL RYFERT SPREAD NHYDROUS APPLIC PRAYER OTARY HOE OPERATION	ACR E ACR E ACR E LABOR, C DOL. HR. HR. HR. HR. 1NCH CODE 2 4 81 37 42 71 73 74 67 57 1TEM NO.	0.APITAL, 0.APITAL, 0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	AN	FEB 0.0 0.0 0.0 INERY, 0.0 IREMEN 0.0 0.0 0.0 0.0 FIXED SUR. 0.04 0.02 0.03 0.03 0.05 0.05 0.05 0.05 0.05 0.05	MAR 0.0 0.40 0.40 0.24 TS BY P 0.16 0.0 0.16 0.0 0.16 0.0 0.16 0.0 0.16 0.0 0.16 0.0 0.16 0.0 0.16 0.0 0.16 0.0 0.16 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	APR 0.0 0.0 53.42 26.71 1001 10 0.31 0.42 6.00 11ABLE 101A	0.0 EXP MAY 0.0 0.16.111 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JUND 0.0 C.	13 11 IGEME! 13 12 IGEME! 14 9 17 16 10 10 10 10 10 10 10 10 10 10 10 10 10 1	7.79 1 NT -4.45 0.31 0.37 0.68 -7.20 FUE 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.78 1.80 0.31 0.19 0.50 3.60	0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.16 0.22 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 VARII 1.6 2.4 0.0 0.0	0.9 0.53 0.49 0.21 0.0 0.21 0.0 1AL ABLE 19 14 33 33 33 34 44 177	0.0 0.0 0.0 0.0 0.0 0.74 1.06 0.39 1.24 0.39 0.51 0.43 0.31		22 27 IME 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.63 2.63 2.63 2.09 1.25 3.34
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OTAL EXPENSES ETURNS TO LAND, NNUAL CAPITAL ACHIMERY LABOR RR IGATION LABOR OTAL LABOR RR IGATION WATER MACHINE MACHINE RACTOR(2) TALK SHREDDER HSEL ULTIBEDDER PLNT OTARY HOE OPERATION TALK SHREDDER HFSET DISK HSEL UTIBEDDER PLNT OTARY HOE	ACR E ACRE LABOR, C DOL. HR. HR. HR. INCH CODE 2 4 81 37 42 71 73 74 67 57 ITEM NO. 4,81 4,71 4,71 4,71 4,71	0.00	AN	FEB 0.0 0.0 1NERY, 0.0 0.0 1NERY, 0.0 0.0 1REMEN 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	MAR 0.0 0.0 0.0 0.0 0.24	EIPTS / APR	0.0 EXP MAY 0.0 0.16.11.10.10.10.10.10.10.10.10.10.10.10.10.	JUND 0.0 C.	13 19 19 19 19 19 19 19 19 19 19 19 19 19	7.20 FUE 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.78 1.80 0.31 0.19 0.50 3.60	0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.16 0.22 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 VARII 1.6 2.4 0.0 0.0	0.9 0.53 0.49 0.21 0.0 0.21 0.0 1AL ABLE 19 14 33 33 33 34 44 177	0.0 0.0 0.0 0.0 0.0 0.74 1.06 0.39 1.24 0.39 0.51 0.43 0.31		22 27 IME 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.63 2.63 2.63 2.09 1.25 3.34
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OTAL RECEIPTS OTAL REPENSES RETURNS TO LAND, NNUAL CAPITAL MACHINERY LABOR OTAL LABOR MACHINE MACHIN	ACR E ACRE LABOR, C DOL. HR. HR. HR. HR. 1NCH 2 4 4 2 71 73 74 67 57 1TEM NO. 4,81 4,37 4,42 2,74 4,67 4,57 4,57 4,57	0. APITAL, 0. APITAL, 0. APITAL, 0. O. MACHI DEPR 0.73 1.05 0.59 1.66 0.52 0.68 0.56 0.40 1.24 0.48 DATE (AN	FEB 0.0 0.0 1NERY, 0.0 0.0 1REMEN 0.0 0.0 1REMEN 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	MAR 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	EIPTS / APR	0.0 EXP MAY 0.0 L6.11 CSK, AM 6.71 0.86 0.0 0.0 0.6 COSTS LL FIXE 0.86 1.27 1.42 0.65 6.0 0.6 1.27 1.42 0.50 6.6 0.47 1.42 0.5 0.6 0.6 1.27 1.42 0.5 0.6 0.6 1.28 1.29 0.6 0.6 1.29 1.29 1.29 1.29 1.29 1.29 1.29 1.29	JUND 0.0 C.	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.79 1 NT	0.0 0.78 1.80 0.31 0.19 0.50 3.60	0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.16 0.22 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 VARII 1.6 2.4 0.0 0.0	0.9 0.53 0.49 0.21 0.0 0.21 0.0 1AL ABLE 19 14 33 33 33 34 44 177	0.0 0.0 0.0 0.0 0.0 0.74 1.06 0.39 1.24 0.39 0.51 0.43 0.31		22 27 IME 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.63 2.63 2.63 2.09 1.25 3.34
OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND, INNUAL CAPITAL IACHINERY LABOR RR IGATION LABOR OTAL LABOR RR IGATION WATER MACHINE RACTOR(2) RACTOR(4) TALK SHREDDER HFSET OISK HISEL OTERATOR OTAL LABOR OTAL L	ACR E ACRE LABOR, C DOL. DOL. HR.	0.698 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508 0.508	N R REGU O NERY IN O O O O O O O O O O O O O O O O O O O	FEB 0.0 0.0 INERY, 0.0 0.0 INERY, 0.0 0.0 IREMEN 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	MAR 0.0 0.0 0.40 0.24 15 BY 1 0.16 0.16 0.16 0.16 0.16 0.10 0.16 0.10 0.16 0.10 0.10	EIPTS / APR	NO EXP MAY 0.0 0.16.11 ISK, AA 0.6.11 ISK, AA 0.6.1	JUND 0.0 C.	9 7 16 0 UR F 16 16 16 16 16 16 16 16 16 16 16 16 16	7.20 FUE 1.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.78 1.80 0.31 0.19 0.50 3.60	0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.16 0.22 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 VARII 1.6 2.4 0.0 0.0	0.9 0.53 0.49 0.21 0.0 0.21 0.0 1AL ABLE 19 14 33 33 33 34 44 177	0.0 0.0 0.0 0.0 0.0 0.74 1.06 0.39 1.24 0.39 0.51 0.43 0.31		22 27 IME 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.63 2.63 2.63 2.09 1.25 3.34

TABLE XLIII

CONVENTIONAL TILLAGE WHEAT ON CLAY LOAM SOIL WITH SURFACE IRRIGATION

CATEGORY	UNITS	PRICE	QUANTITY	VALUE
PRODUCTION: WHEAT GRAZING TOTAL RECEIPTS	BU. AUMS	2.050 10.000	55.000 1.000	112.75 10.00 122.75
OPERATING INPUTS:				
WFEAT SEED NITROGEN CUSTOM COMBINE CUSTOM HAULING TRACTOR FUEL COST TRACT REPAIR COST TRACTOR LUBE COST EQUIP REPAIR COST	BU. LBS. ACRE BU. ACRE ACRE ACRE		100.000	9.80 5.50 1.90 0.92 0.29 0.77
IRRIG FUEL COST IRRIG LUBE COST IRRIG REPAIR COST TOTAL OPERATING COST	ACRE ACRE ACRE	· ·		4.21 1.13 4.34 47.86
RETURNS TO LAND, LABOR, CAPITAL, MACHINERY OVERHEAD, RISK, AND MANAGEMENT				74.89
CAPITAL COST: ANNUAL GPERATING CAPITAL TRACTOR INVESTMENT EQUIPMENT INVESTMENT IRRIGATION SYSTEM INVESTMENT TOTAL INTEREST CHARGE		0.100 0.100 0.100 0.100	22.009 13.547 10.106 59.580	2.20 1.35 1.01 5.96 10.52
RETURNS TO LAND, LABOR, MACHINERY, CVERHEAD, RISK AND MANAGEMENT				64. 36
OWNERSHIP COST: (DEPRECIATION, TAXES, INSURANCE) TRACTOR EQUIPMENT IRRIGATION SYSTEM TOTAL CWNERSHIP COST	DOL. DOL.			1.62 1.40 9.41 12.43
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				51.93
LABCR COST: MACHINERY LABOR IRRIGATION LABOR TOTAL LABOR COST	HR • HR •	3.000	1.400 0.936	
RETURNS TO LAND, OVERHEAD, RISK AND MANAGEMENT				44.92

PANHANCLE ENERGY BUDGETS

ENTERPRISE 76 AREA AND COUNTY 12 DETAIL QO IRIG. LEVEL 5 LAND CLASS 1 GRAZING 3 MACH. COMP. 1 IRIG. SYSTEM 5 PRICE VECT 1 INDIV. NUMBER QUANNUAL CAPITAL MONTH: 6 DATE PRINTED: 03/05/75

TABLE XLIII (Continued)

LINE	JAN	2 FEB	3 Mar	4 APR	5 May) ON	JUL.	8 AUG	9 SEP	10 0CT	NGA TJ	12 DEC	13 PRICE	14 WEIGHT		16 LTEM COUR	L7 TYPE	18 CONT
PRODUCTION 1 WHEAT 2 GRAZING	0.0 0.20	0.0 0.20		0.0		55.00 0.0		0.0	0.0 0.0	0.0	0.0	0.0	2.050 10.000	0.0		76. 85.		0.
CPERATING INPUTS					RA	TE/UNIT							PRICE	NUMBER	UNIT		TYPE	CONT
11 WHEAT SEED 12 NITROGEN 13 CUSTOM COMBINE 14 CUSTOM HAULING	0.0 0.0 0.0	0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0	0.0 0.0 1.00 55.00	0.0 0.0 0.0 0.0	0.0 100.00 0.0 0.0	1.00 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	5.000 0.140 9.800 0.100	0.0 0.0 0.0 0.0	2. 12. 7.	176. 211. 305. 306.	3. 3.	0. 0. 0.
MACHINERY REQUIREMEN	TS					TIMES	OVER						XXXXX	XXXXX	POWER	MACH	TYPE	CONT
38 CFFSET DISK 39 COTTON STRIPPER. 40 LAND PLANE 41 AMHYDROUS APPLIC 42 CULTIBEDDER TILL 43 CULTIBEDDER TILL 44 DRILL WO/FERT	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	1.00 0.0 0.0 0.0 0.0	0.0 1.00 0.0 0.0 0.0	1.00 0.50 1.00 0.0 0.0	0.0 0.0 0.0 0.0 1.00 1.00	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0	4. 4. 4. 4.	37. 24. 77. 73. 51.	4. 4. 4.	0.

PANHANDLE ENERGY BUDGETS

		MONTHLY	SHMMARY	OF PECE	IDTS A	NO EYDE	MSES							
CATEGORY				MAR		MAY		JUL	AUG	SEP	OC T	NOV	DEC	TOTAL
TCTAL RECEIPTS	ACR E	2.00	2.00		0.0		112.75	0.0	0.0		0.0			122.75
TOTAL EXPENSES	ACRE	0.0				3.23							0.0	
RETURNS TO LAND,				, GVERHE	AD, R		MANAGE	MENT						74.89
ANNUAL CAPITAL	DOL .	0.0	0.0			0.27	0.0	0.0	13.40	6.61	0.0	1.26	0.0	22.01
		LABOR R	EQU IR EM E	NTS BY M	ONTH									
MACHINERY LABOR	HR.	0.0	0.0	0.0					0.75					1.40
IRRIGATION LABOR	HR.	0.0	0.0			0.31								0.94
TCTAL LABOR		0.0		0.0					0.75					2.34
IRR IGATION WATER	INC	0.0	0.0	0.0	3.00	6.00	0.0	0.0	0.0					18.00
		MACHINE DEPR	RY FIXED	AND VAR	IABLE	COSTS P	ER HOUR				TC	T AL		
MACHINE	CODE	DEPR	INSUR.	TAX	TOTA	L FIXED	REPAI	R	FUEL			ABLE	INT.	HK/T TME
TRACTOR(4)	4			0.16		1.27	0.72		1.49	0.22	2.		1.06	1.00
OFFSET DISK	37		0.07	0.21			0.43		0.0	0.0	0.		1.24	0.13
	77		0.06	0.13			1.15		0.0	0.0	1.	15	1.03	0.47
ANHYDROUS APPLIC		0.56		0.07		0.66	0.37		0.0	0.0	0.		0.43	0.26
CULTIBEDDER TILL				0.09		0.80	0.95		0.0	0.0		95	0.51	0.11
CULTIBEDDER TILL			0.03	0.09		0.80	0.95		0.0	0.0	0.	95	0.51	0.11
DRILL WO/FERT	61	1.65	0.07	0.21		1.93	0.44	·	0.0	0.0	0.	.44 	1.24	0.18
	ITEM	TIM	ES LABOR	MACHINE	FUEL,	OIL,LUB	., FIX	En Cos	TS					
OPERATION	NO.	DATE OVE	R HOURS	HCURS	REPAI	R PER A	CRE PE	FACRE						
COTTON STRIPPER			0.0			0.0		0.0						
	4,37		0.157			-40		0.74						
LAND PLANE				0.234										
ANHYDROUS APPLIC			0.310			. 78		0.94						
CULTIBEDDER TILL			0.139											
CULTIBEDDER TILL	. 4.51	SEP 1.0	0.0.139	0.115		1. 42		0.45						

TABLE XLIV

CONVENTIONAL TILLAGE CORN SILAGE ON SANDY LOAM SOIL UNDER CIRCULAR SPRINKLER IRRIGATION

CATEGORY	UNITS	PRICE	QUANTITY	VALUE
PRUDUCTION: CCRN SILAGE TOTAL RECEIPTS	TONS	5.500	20.000	110.00 110.00
OPERATING INPUTS:				
SILAGE SEED	LBS.	0.520		
NITROGEN	LBS.	0. 300		
NITROGEN	LBS.	0.140		14.00
PHOSPHATE	LBS.		50.000	
PRE-MERGE HERB	LBS.	2.820	2.000	
INSECTICIDE	ACRE	8.000	1.000	8.00
TRACTOR FUEL COST	ACRE			2.62
TRACT REPAIR COST	ACRE			1.27
TRACTOR LUBE COST	ACRE			0.39
EQUIP REPAIR COST	ACRE			0.81
IRRIG FUEL COST	ACRE			8. 13
IRRIG LUBE COST	ACRE			1.63
IRRIG REPAIR COST	ACRE			10.25
TOTAL OPERATING CCST		· 		1 05. 64
RETURNS TO LAND, LABOR, CAPITAL, MACHINER CVERHEAD, RISK, AND MANAGEMENT	,			4. 36
CAPITAL CCST:				
ANNUAL OPERATING CAPITAL		0.100	32.279	3. 23
TRACTOR INVESTMENT		0.100	18,618	1.86
EQUIPMENT INVESTMENT	* *	0.100	9,435	0. 94
IRRIGATION SYSTEM INVESTMENT	•	0.100	18.618 9,435 96,024	9.60
TOTAL INTEREST CHARGE				15 64
RETURNS TO LAND, LABOR, MACHINERY,				
OVERHEAD, RISK AND MANAGEMENT			~~~~~~~	-11.27
OWNERSHIP COST: (DEPRECIATION,				
TAXES, INSURANCE)				
TRACTOR	DOL.			2. 23
EQUIPMENT	DOL.			1.49
IRRIGATION SYSTEM	DOL.			25. 05
TOTAL CWNERSHIP COST				28.76
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				. 60.03
KISK AND MANAGEMENT				-40.03
LABCR COST:	un.	2 000	2 627	,
MACHINERY LABOR IRRIGATION LABOR	HR.	3.000	2.037 1.248	6.11 3.74
TOTAL LABOR COST	пк •	3.000	1.240	9. 85
RETURNS TO LAND, OVERHEAD,				

PANHANCLE ENERGY BUDGETS

ENTERPRISE 86 AREA AND COUNTY 12 DETAIL QQ IRIG. LEVEL 6 LAND CLASS 8 GRAZING Q MACH. COMP. 1 IRIG. SYSTEM 4 PRICE VECT 1 INDIV. NUMBER Q ANNUAL CAPITAL MONTH: 9 DATE PRINTED: 03/05/75

TABLE XLIV (Continued)

	1.1	. 2	-	4	5			-	9	10			13	14	15	16	17 18
. INE		FEB	HAR	APR	MAY	NUL	JUL	AUG	SEP	OCT	NOV	DEC	PRICE	WEIGH	T UNIT	TIEN	TYPE CO
REDUCTION 1 CORN SILAGE	0.0	0.0	0.0	0.0	NUMBS 0 • 0	ER OF (0.0	0.0	20.00	0.0	0.0	0.0	5.500	0.0		161.	2. 0
PERATING INPUTS		***			R'A1	[E/UN [1	,						PRICE				TYPE CO
1 SILAGE SEED 2 NITROGEN 3 MITROGEN 4 PHOSPHATE 5 PRE-MERGE HERS 6 INSECTICIDE	0.0 0.0	0.0	0.0 0.0 0.0	0.0 100.00 0.0 50.00 2.00	0.0	20.00 0.0 0.0 0.0 0.0	0.0 0.0 50.00 0.0 0.0 0.50	0.0 0.0 50.00 0.0 0.0	0.0 0.0 0.0 0.0	0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.520 0.300 0.140 0.250 2.820 8.000	0.0 0.0 0.0 0.0 0.0	12. 12. 12. 12.	CODE 186. 211. 211. 214. 254. 240.	3. 0 3. 0 3. 0 3. 0 3. 0
ACHINERY REQUIRE		-					OVER						XXXXX	XXXXX	POW ER	MACH	TYPE CO
8 OFFSET DISK 9 CHISEL 0 DRY FERT SPREA 1 ANHYDROUS APPL 2 SPRAYER 3 CULTIBEDDER PL 4 ROTARY HOE	0.0 0.0	0.0 0.0 0.0	1.00 0.0 0.0 0.0 1.00 0.0	0.0 1.00 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 1.00	0.0 0.0 0.0 1.00 0.0 0.0	0.0 0.0 0.0 1.00 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	1.00 1.00 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	UNIT 4. 4. 4. 2. 4.	42. 71. 73. 74. 67.	4. 0 4. 0 4. 0 4. 0 4. 0
9 ACIN IRRIG WAT	FER 0.0	0.0	0. 0	0.0	6.00	3.60	7.20	7.20	0.0	0.0	0.0	0.0					
PANHANI	DLE ENER	GY BUD	GETS											NERY CO			1
			DEEN CT	USED A	ITH THE	S RHIDG	CT+++										
CATEGORY	UNI	- MON	THLY SU	MMARY FEB	OF RECE	IPTS A	AND EXP	JUE			AUG	SEP	cct	NOV	DEC		TOTA
CATEGORY OTAL RECEIPTS OTAL EXPENSES	UNI ACR ACR	MON T E	THLY SU JAN D.O	MMARY FEB 0.0	OF RECE MAR 0.0 1.00	APR 0.0 48.42	AND EXP MAY 0.0 9.00	JUN 0.0	0. 5 17.	.0 .79 1	0.0 LI	SEP 10.00	CCT 0.0 0.0	NOV 0.0 1.00	DEC 0.0 C.0		TOTA 110.0 105.6 4.3
CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND,	UNI ACR ACR	MON T E (CAPIT A	THLY SU JAN D.O D.O L, MACH	MMARY FEB 0.0	OF RECE HAR 0.0 1.00 OVERHE	APR 0.0 48.42	AND EXP MAY 0.0 9.00	JUN 0.0 14.6 D HANA	0 0. 55 17. AGEMENT	.0 .79 1 T	0.0 11 3.79	10.00	0.0	0.0	0.0		110.0
CATEGORY OTAL EXPENSES ETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR RRIGATION LABOR	UNI ACR ACR LABOR,	MON T E CAPIT A	THLY SU JAN 0.0 0.0 L, MACH 0.0 DR REQU	MMARY FEB 0.0 0.0 INERY,	OF RECE MAR 0.0 1.00 OVERHE	APR 0.0 48.42 EAD, RI	MAY 0.0 9.00 ISK, AN	JUN 0.0 14.6 D HANA	0 0. 55 17. AGEMENT	.0 .79 1 T .96	0.0 11 3.79 1.15 0.31 0.37	0.00	0.0	0.0 1.00	0.0		110.0 105.6 4.3
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES VETURNS TO LAND, NAMUAL CAPITAL MACHINERY LABOR RRIGATION LABOR OTAL LABOR	UNI ACR ACR LABOR, DOL HR.	MON' E CAPIT M	THLY SU JAN D.O D.O D.O D.O DR REQU D.O D.O	MMARY FEB 0.0 0.0 INERY, 0.0 IREMEN 0.0	OF RECE MAR 0.0 1.00 OVERHE 0.50	APR 0.0 48.42 EAD, RI 20.17	3.00	3.6 0.3 0.3 0.1	0 0. 55 17. AGEMEN 1 56 2. 87 0. 9 0.	.96 .31 .37	0.0 11 3.79 1.15 0.31 0.37 0.68	0.0	0.0	0.0 1.00 0.83	0.0		110.0 105.6 4.3 32.2 2.0 1.2
TOTAL EXPENSES TOTAL EXPENSES ETURNS TO LAND, INNUAL CAPITAL HACFINERY LABOR RRIGATION LABOR OTAL LABOR IRRIGATION WATER MACHINE	UNI ACR ACR LABOR. DOL HR. HR. HR.	H MACL	THLY SU JAN J-0 D-0 D-0 DR REQU D-0 D-0 D-0 D-0 HINERY IN	MMARY FEB 0.0 0.0 INERY, 0.0 IREMEN 0.0 0.0 0.0	OF RECE MAR 0.0 1.00 OVERHE 0.50 ITS BY N 0.52 0.0 0.52	20.17 O.0 48.42 EAD, RI 20.17 IONTH 0.11 0.0 0.11	0.0 9.00 (SK, AN 3.00 0.31 0.31	3.60 D HAMA 3.60 0.3 0.1 0.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.31 .37 .68	0.0 11 3.79 1.15 0.31 0.37 0.68	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 1.00 0.83 0.41 0.0 0.41	0.0 0.0 0.0 0.0 0.0		110.0 105.6 4.3 32.2 2.0 1.2 3.2 24.0
CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TC LAND, INNUAL CAPITAL MACPINERY LABOR OTAL LABOR RRIGATION LABOR OTAL LABOR RRIGATION WATER MACHINE RACTOR(2) RACTOR(4) PFSET DISK HISEL HISEL	UNI ACR ACR LABOR. DOL HR. HR. HR. INC CODE 2 4 37 42 71	H MACC DEPR 0.73 1.05 1.06 0.52	THLY SU JAN J-0 D-0 L, MACH J-0 O-0 O-0 O-0 HINERY IN O O	MMARY FEB 0.0 0.0 INERY, 0.0 IREMEN 0.0 0.0 0.0 0.0 FIXED SUR. .04 .07 .02	OF RECE MAR 0.0 1.00 OVERHE 0.50 0.52 0.0 0.52 0.0 0.52	APR 0.0 48.42 EAD., RI 20.17 40NTH 0.11 0.0 0.11 0.0 CITABLE TGTA	3.00 0.0 0.0 0.0 0.0 0.31 0.31 6.00 COSTS AL FIXE 0.88 1.27 1.94 0.61	3.66 D MANA 3.66 D MANA 3.66 D PER HDD D REP 0.00	00 7	.00 .79 1 T .96 .31 .37 .68 .20	0.0 11 3.79 1.15 0.31 0.37 0.68 7.20	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0-0 0-0 0-0 0-0 0-0 0-0 VARIA 1-6 2-4-4 0-4	0.0 1.00 0.83 0.41 0.0 0.41 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 : 0 : 0 :	110.0 105.6 4.3 32.2 2.0 1.2 3.2 24.0 7 TIME .00 .00 .13 .21
CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TC LAND, NNUAL CAPITAL MACHINERY LABOR OTAL LABOR RRIGATION WATER MACHINE RACTOR(2) RACTOR(2) RACTOR(4) FFSET DISK HISEL RY FERT SPREAD NPAYOROUS APPLIC PRAYER ULTIBEDDER PLNT	UNIACRA ACRA ACRA ACRA ACRA ACRA ACRA ACRA	H MACI DEPR 1-05 1-05 1-05	THLY SUJAN JAN JAN JAN JAN JAN JAN JAN	MMARY FEB 0.0 0.0 INERY, 0.0 IREMEN 0.0 0.0 0.0 FIXED SUR- .06 .07	OF RECE HAR 0.0 1.00 0VERHE 0.50 0.52 0.0 0.52 0.0 4 VAX 0.11 0.16 0.21	APR 0.0 48.42 EAD, RI 20.17 HONTH 0.11 0.0 CITABLE TETA	0.0 9.00 ISK, AN 3.00 0.31 6.00 COSTS AL FIXE 0.88 1.27 1.94	3.60 D MANA 3.60 O.10 O.10 O.10 O.10 O.10 O.10 O.10 O.1	00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7	.96 .31 .37 .68 .20	0.0 11 3.79 1.15 0.31 0.37 0.68 7.20	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VARIA 1.16 2.4 0.4	0.0 1.00 0.83 0.41 0.0 0.41 0.0	0.0 0.0 0.0 0.0 0.0 0.0 1NT- 0.74 1.06 1.24	1. 0. 0. 0. 0.	110.0 105.6 4.3 32.2 2.0 1.2 3.2 24.0 7 TIME .00 .00
CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TC LAND, NNUAL CAPITAL ACHINERY LABOR OTAL LABOR RRIGATION WATER MACHINE RACTOR(2) RACTOR(4) FFSET DISK MISEL RY FERT SPREAD NEVDROUS APPLIC PRAYER ULTIBEDDER PLNT	UNI ACR ACR LABOR. DOL HR. HR. INC CODE 2 4 37 42 71 73 74 67	MON T E (CAPIT AM CAPIT AM CAP	THLY SUJAN JAN JAN JAN JAN JAN JAN JAN	MMARY FEB 0.0 0.0 INERY, 0.0 1REMEN 0.0 0.0 0.0 0.0 FIXED 5.04 .06 .07 .02 .03 .03 .03	OF RECE MAR 0.0 1.00 OVERHE 0.50 TS BY P 0.52 0.0 0.52 0.0 0.52 0.0 0.52 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	APR 0.0 0.0 48.42 20.17 10NTH 0.11 0.0 0.11 0.0 0.1 TABLE TOTA	AND EXP MAY 0.00 (ISK, AN 3.00 0.0 0.31 0.31 6.00 COSTS AL FIXE 0.88 1.27 1.94 0.61 0.60 0.60 0.47 1.42 0.56	3.64 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7.	.00 .79 1 T .96 .31 .37 .68 .20 FUE 1.0 0.0 0.0 0.0 0.0 0.0	0.0 11 3.79 1.15 0.31 0.37 0.68 7.20	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VAR 1.6 2.4 0.1 0.2 0.3 0.1	0.0 1.00 0.83 0.41 0.0 0.41 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1. 0. 0. 0. 0.	110.0 105.6 4.3 32.2 2.0 1.2 3.2 24.0 7 TIME .00 .00 .00 .13 .21 .C9 .36 .30
CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TC LAND, NNUAL CAPITAL ACHINERY LABOR OTAL LABOR MACHINE RACTOR(2) RACTOR(2) RACTOR(4) FFSET DISK HISEL NYDROUS APPLIC PULTIBEDDER PLNT OPERATION OPERATION FFSET DISK HISEL	UNI ACR ACR LABOR. DOL HR. HR. HR. INC CODE 2 4 37 42 71 73 74 67 57 ITEM NO. 4,37 4,42	MON T E E E E E E E E E E E E E E E E E E	THLY SUJAN O-0	MMARY FEB 0.0 0.0 0.0 0.0 0.0 INERY, 0.0 0.0 INERY, 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	OF RECE HAR O-0 O-0 O-0 O-52 O-0 O-52 O-0	20-17 20-17 20-17 48-42 20-17 480-42 20-17 480-42 20-17 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-42 480-4	AND EXP MAY 0.00 (ISK, AN 3.00 0.0 0.31 0.31 6.00 COSTS AL FIXE 0.88 1.27 1.94 0.61 0.60 0.60 0.47 1.42 0.56	3.64 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7. 00 7.	-96	0.0 11 3.79 1.15 0.31 0.37 0.68 7.20	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VAR 1.6 2.4 0.1 0.2 0.3 0.1	0.0 1.00 0.83 0.41 0.0 0.41 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1. 0. 0. 0. 0.	110.0 105.6 4.3 32.2 2.0 1.2 3.2 24.0 7 TIME .00 .00 .00 .13 .21 .C9 .36 .30
CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND, INNUAL CAPITAL MACHINERY LABOR OTAL LABOR RRIGATION WATER RACTOR(2) RACTOR(4) PEFSET DISK HISEL RY FERT SPREAD INFURDER PLNT OTARY HOE	UNI ACR ACR LABOR, DOL HR. HR. HR. INC CODE 2 4 37 42 71 73 74 67 57 ITEM NO. 4,37	HONN T E E E E E E E E E E E E E E E E E E	THLY SUJAN 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	MMARY FEB 0.0-0 0.0 0.0 INERY, 0.0 INERY, 0.0 0.0 INERY, 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	OF RECE HAR 0.0 0 1.00 OVERHE 0.50 OVERHE 0.52 O.0 0.52 O.0 0.52 O.0 O.52 O.0 O.52 O.0	EIPTS / APR	0.0 0.31 0.31 6.00 COSTS E 0.88 1.27 1.94 0.61 0.66 0.47 0.56 COSTS E 0.88 0.47 0.56	3.64 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	55 17. 66 2. 67 0. 69 0. 69 0. 7. 100 7. 100 7. 114 29 114 29 117 79 117 79 117 79 117 79 117 79 117 79 117 79	FUE 1.00 1.4 0.00 0.00 0.00 0.00 0.00 0.00	0.0 11 3.79 1.15 0.31 0.37 0.68 7.20	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VAR 1.6 2.4 0.1 0.2 0.3 0.1	0.0 1.00 0.83 0.41 0.0 0.41 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1. 0. 0. 0. 0.	110.0 105.6 4.3 32.2 2.0 1.2 3.2 24.0 7 TIME .00 .00 .00 .13 .21 .C9 .36 .30

TABLE XLV

CONVENTIONAL TILLAGE GRAIN SORGHUM ON CLAY LOAM SOIL UNDER MODERATE SURFACE IRRIGATION

CATEGORY	UNITS	PRICE	QUANTITY	VALUE
PRODUCTION:				
MILO	CWT.		42.000	
MILO STUBBLE	AUMS	6.000	1.000	6.00
TOTAL RECEIPTS				104. 28
CPERATING INPUTS:				
MILO SEEC	LBS.	0.270	7.000	
NITROGEN	LBS.	0.140	100.000	14.00
INSECTICIDE	ACRE	2.200	1.000	
HERBICICE	ACRE	5.630	1.000	· 5. 63
CUSTOM CUMBINE	ACRE	10.000	1.000	10.00
CUSTOM HAULING	CWT.	0.100	42.000	
TRACTOR FUEL COST	ACRE			3. 09
TRACT REPAIR COST	ACRE			1.50
TRACTOR LUBE COST	ACRE			0. 46
EQUIP REPAIR COST	ACRE			0. 93
IRRIG FUEL COST	ACRE		+	2.57
IRRIG LUBE COST	ACRE			0.69
IRRIG REPAIR COST	ACRE			2.65
TOTAL OPERATING COST				49.82
RETURNS TO LAND, LABOR, CAPITAL, MACHINERY	· •			
OVERHEAD, RISK, AND MANAGEMENT				54.46
CAPITAL COST:				
ANNUAL CPERATING CAPITAL		0.100	13,690	1.37
TRACTUR INVESTMENT		0.100	21,999	2.20
EQUIPMENT INVESTMENT		0.100	21,999 11,958 36,410	1.20
IRRIGATION SYSTEM INVESTMENT		0.100	36.410	3. 64
TOTAL INTEREST CHARGE				8.41
RETURNS TO LAND, LABOR, MACHINERY,				
OVERHEAD, RISK AND MANAGEMENT				46.06
OWNERSHIP COST: (DEPRECIATION,				
TAXES, INSURANCE)				
TFACTOR	DOL.			2.63
EQUIPMENT	DOL.			1.70
IRRIGATION SYSTEM	DOL.			5 . 75
TOTAL CWNERSHIP CCST				10.09
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				35 , 97
LABCE COST:				
	HR -	3.000	2.274	6. 82 1.72
IRRIGATION LABOR	HR -	3.000 - 3.000	0.572	1.72
TCTAL LABOR COST				8.54
RETURNS TO LAND, OVERHEAD, RISK AND MANAGEMENT)	<u> </u>	27.43

PANHANCLE ENERGY BUDGETS ...

ENTERPRISE 72 AREA AND COUNTY 12 DETAIL QQ IRIG. LEVEL 3 LAND CLASS 1 GRAZING 3 MACH. COMP. _1 IRIG. SYSTEM 5 PRICE VECT 1 INDIV. NUMBER _1 ANNUAL CAPITAL MONTH:10 DATE PRINTED: 03/05/75

TABLE XLV (Continued)

	1 JAN	2 FEB	3 MAR	4 APR	5 May	6 JUN	7 JUL	8 AUG	SEP	10 OCT	11 NOV	12 DEC	13 PRICE	14 WE IGH		16 17 18 ITEM TYPE CONT	r
PRODUCTION 1 PILO	0.0	0.0	0.0	0. 0	NU PBE	R CF U	NITS 0.0	0.0	0.0	42.00	0.0	0.0	2.340	0.0	CODE		
2 MILO STUBBLE	0.30		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.30		0.0		15% 2. 0.	
OPERATING INPUTS					RAT	E/UNI T							PRICE	NUMBER UNIT:		THEM TYPE CONT	Г
11 MILO SEED 12 NITROGEN 13 INSECTICIDE 14 FERBICIDE 15 CUSTOM COMBINE 16 CUSTOM HAULING	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 100.00 0.0 0.0 0.0	7.00 0.0 0.0 1.00 0.0	0.0 0.0 1.00 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 1.00 42.00	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.270 0.140 2.200 5.630 10.000 0.100	0.0	12. 12. 7. 7.	173. 3. 0. 21i. 3. 0. 240. 3. 0. 250. 3. 0. 305. 3. 0. 306. 3. 0.	
MACHINERY REQUIREM	ENTS					TIMES	DVER						xxxxx	xxxxx	PONER UNII	MAC 1 TYPE CONT	г
38 OFFSET DISK 39 CHISEL 40 LAND PLANE 41 CULTIBEDDER TIL 42 ANHYDROUS APPL 43 CULTIBEDDER PLN 44 CULTIBEDDER TIL 45 FIELD CULTIVATO 46 SPRAYER	C 0.0 T 0.0 L 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.00 1.00 0.0 0.0 0.0 0.0 0.0 0.0	1.00 0.0 0.50 0.0 0.0 0.0	0.0 0.0 0.0 1.00 1.00 0.0 0.0	0.0 0.0 0.0 0.0 0.0 1.00 1.00 1.00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0	4. 4. 4. 4. 4. 4.	37. 4. 0. 47. 4. 0. 17. 4. 0. 51. 4. 0. 72. 4. 0. 51. 4. 0. 47. 4. 0. 51. 4. 0.	
49 ACIN IRRIG WATE	R 0.0	0.0	0.0	0.0	6.00	5.00	0. C	0.0	0.0	0.0	0.0	0 . 0.					
PANHANDL	E ENERG	Y BUDGE	ETS											INERY C			
***NO COMPLEMENT C CATEGORY TOTAL RECEIPTS TOTAL EXPENSES	UNIT ACRE	MONTH J/	HLY SUM AN F		ITH THI OF RECE MAR 0.0	IPTS A		JUN 0.0	ŏ	. 0	NUG 0- 0	SEP 0.0	OCT 98.28 14.20	NOV 2.40 0.0	DEC 1.80 0.0	TOTAL LOY . 28	
RETURNS TO LAND, L		AP IT AL	MACHI			AD, RI	SK. AN	D HANA	GEMEN.							54,46	
ANNUAL CAPITAL	DOL.	0.	.0 0	.0	0.58	0.65	7.68	4.2	3 0	.55 0	••	0.0	9.0	0.0	0.0	13.69	
MACHINERY LABOR	HR.		R REQUI	REMEN	TS BY N 0.41	0.44	0.45	0.9		.0 0	.0	0.0	0.0	0.0	0.0	2.27	
IRRIGATION LABOR TOTAL LABOR	HR.	0.	.0 0	•0	0.0	0.0	0.31	0.2	6 0	.0 0	0.0	0.0	0.0	0.0	0.0	0.57 2.85	
IRRIGATION WATER	INCH	0.	•0 0	.0	0.0	0.0	6.00	5.0	0 0	•0 0	0.0	0.0	0.0	0.0	0.0	11.00	
PACHINE .C	ODE	MACH!	INERY F		AND VAR		COSTS			FUEL		LUB.	VARI		INI.	h /TIME	
TRACTOR(4) OFFSET DISK CHISEL LANC PLANE CULTIBEDDER TILL ANHYDROUS APPLIC CULTIBEDDER PLNT CULTIBEDDER TILL FIELD CULTIVATOR	4 37 42 77 51 73 67 51 46 74	1.05 1.66 0.52 0.64 0.69 0.56 1.24 0.69 0.60	0. 0. 0.	06 07 02 06 03 03 05 03	0.16 0.21 0.06 0.13 0.09 0.07 0.13 0.09		1.27 1.94 0.61 0.84 0.80 0.66 1.42 0.80 0.70 0.47	0 .	72 43 14 15 95 37 77 95	1.49 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.22 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 0.1 1.1 0.5 0.5 0.5 0.5	64 63 64 65 65 67 77 77	1.06 1.24 0.39 1.03 0.51 0.43 0.82 0.51 0.45 0.31	1.00 3.13 0.21 3.47 0.11 9.26 0.15 0.11 0.24 0.30	
OPERATION	ITEM NO.		TIMES L OVER H	ABOR I	MACHINE HOURS												
OFFSET DISK CHISEL OFFSET DISK LAND PLANE CULTIBEDDER TILL ANHYDROUS APPLIC CULTIBEDDER PLNT CULTIBEDDER TILL STEIN CULTIBEDDER TILL	4,42 4,37 4,77 4,51 4,73 4,67 4,51	MAR APR APR MAY JUN JUN	1.00 0 1.00 0 0.50 0 1.00 0 1.00 0	.184	0.129 0.210 0.129 0.234 0.115 0.257 0.152 0.152	000	.40 .59 .40 .90 .42 .78		0.7 0.7 0.7 1.0 0.4 0.9 0.7	5 4 4 5 4 3 5							
FIELD CULTIVATOR SPRAYER			1.00 0 1.00 <u>0</u>	.288 .365	0.238	. 0	- 70										

TABLE XLVI

CONVENTIONAL TILLAGE RYE GRAZE-OUT ON SANDY LOAM SOIL UNDER CIRCULAR SPRINKLER IRRIGATION

CATEGORY	UNITS	PRICE	QUANTITY	VALUE
PRODUCTION:				
GRAZE-OUT	AUMS	10.000	6.000	60.00
TOTAL RECEIPTS				60.00
UPERATING INPUTS:	BU.	5.000	1.000	5.00
NITREGEN	LBS.	0.140	40.000	5. 60
NITROGEN	LBS.	0.300		12.00
FHOSPHATE	LBS.		40.000	
TRACTOR FUEL COST	ACRE	0.270	40.000	1.96
TRACT REPAIR COST	ACRE			0.95
TRACTOR LUBE COST	ACRE			0.29
EQUIP REPAIR COST	ACRE			0.45
IRRIG FUEL COST	ACRE			6.10
IRRIG LUBE COST	ACRE			1.22
IRRIG REPAIR COST	ACRE			9,47
TOTAL OPERATING COST	MUNL			53.04
TOTAL OF CRAILING COST				7,7404
RETURNS TO LAND, LABOR, CAPITAL, MACHINE	RY,			
OVERHEAD, RISK, AND MANAGEMENT			***	6.96
CAPITAL CCST:				
ANNUAL OPERATING CAPITAL		0.100	23,957	2.40
TRACTOR INVESTMENT		0.100	23,957 13,933	1.39
ECUIPMENT INVESTMENT		0.100	9.874 96.030	0.99
IRRIGATION SYSTEM INVESTMENT		C.100	96.030	9.60
TOTAL INTEREST CHARGE				14. 38
RETURNS TO LAND, LABOR, MACHINERY,				
OVERHEAD, RISK AND MANAGEMENT				-7.42
OWNERSHIP COST: (DEPRECIATION,				
TAXES, INSURANCE)				
TRACTOR	DOL.			1.67
EQUIPMENT	OOL.			1.54
IRRIGATION SYSTEM	08L.		1	7.05
TCTAL CHNERSHIP COST				10.25
RETURNS TO LAND, LABOR, OVERHEAD,				
RISK AND MANAGEMENT				-17.67
LABCR COST:				* 4. ** ** ** *** ***
MACHINERY LABOR	HR.	.3.000	1-440	4.32
IRRIGATION LABOR	HR.	3.000	1.440 0.936	4, 32 2, 81
TOTAL LABOR COST				7.13
RETURNS TO LAND, OVERHEAD,				34 00
RISK AND MANAGEMENT				-24.80

PANHANDLE ENERGY BUDGETS

ENTERPRISE 89 AREA AND COUNTY 12 DETAIL 00 TRIG. LEVEL 5 LAND CLASS 3 CRAZING 5 MACH. COMP. 1 TRIG. SYSTEM 4 PRICE VECT 1 INDIV. NUMBER 0 ANNUAL CAPITAL MONTH: 6 DATE PRINTED: 03/05/75

TABLE XLVI (Continued)

	1 JAN	FEB	- 3 MAR	4 APR	5 MAY	6 JUN	7 JUL	8 AUG	9 SEP	10 OCT	11 NOV	12 DEC	13 PRICE	14 WE IGH	15 FUNIT	16 11FM	17 TYPE	18 CONT
INE RODUCTION					NUMBE	R OF	UNITS								CODE	CODE		
1 GRAZE-OUT	0.2	0.25	0.75	0.90			0.0	0.0	0.0	0.60	0.90	0.75	10.000	0.0	10.	75.	2.	0.
PERATING INPUTS	•				RAT	E/UNI	T '						PRICE		UNIT			CONT
1 RYE SEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	5.000	0.0	2.	175.	3.	0.
2 MITROGEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.00	0.0	0.0	0.0	0.0	0.140	0.0		211.	3.	0.
3 NITROGEN 4 FHOSPHATE	0.0	20.00	20.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.300 0.250	0.0	12.	211.	3. 3.	0.
ACHINERY REQUIRE	MENTS					T INE	S OVER						xxxxx	XXXXX	POWER	MACH	TYPE	CONT
38 OFFSET DISK	0.0	0.0	0.0	G.C	0.0	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	UNIT 4.	COUE 37.	4.	0.
9 CHISEL	0.0	G. 0	0.0	0.0	0.0	1.00		0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	42.	4.	o.
O SWEEP	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	41.	4.	٥.
1 ANHYDROUS APPL 12 DRY FERT SPREA		1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0 0.0	0.0	0.0	0.0	0.0	0.0	4.	73. 71.	4.	0.
3 DRILL WO/FERT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.	61.	4.	ŏ.
9 ACIN IRRIG WAT	TER 0.0	0.0	3.00	3.00	3.00	0.0	0.0	3.00	0.0	3 .00	3.00	0.0						
PANHANI	OLE ENERG	Y ALCO	FTS										MACH	INERY C	MPI FM	FNT	1	
· Authorit														PHENT C			i	
** NC COMPLEMENT	CHANGES																	
CATEGORY	UNII			MMARY FEB	OF RECE	IPTS APR	AND EXF May	ZBZNB9 NUL	i J1	UL I	AUG	SEP	OCT	NOV.	DEC		ī	OT AL
OTAL RECEIPTS	ACRE			2.50	7.50	9.00					.0	0.0	6.00	9.00	7.50			0.00
CTAL EXPENSES ETURNS TO LAND,	LABOR,			1.28 INERY,		2.80 AD, R	2.80 ISK, AN				.59	5.56	2.80	2.60	0.0			3+94 6+96
NNUAL CAPITAL	DOL .	. ,	.0	3. 76	3.52	0.47	0.23	0.0	0.	.32	7.99	4.17	1.87	1.63	0.0		 2	3.96
					TS BY M			, -										
MACHINERY LABOR	FR.		.0	0.11	0.11	0.0	0.0	0-4			0.47	0.22	0.0	0.0	0.0			1.44
RRIGATION LABOR	HR.		•0	0.0 0.11	0.16 0.27	0.16 0.16).16).62	0.0 0.22	0.16	0.16 0.16	2.0			2.38
			 -															
RRIGATION WATER	INC		.0	0.0	3.00	3.00				•0 :	3.00	0.0	3.00	3.00	C.0		l 	8.00
PACHINE	CODE	MA CH DEPR		FIXED ISUR.	AND VAR		COSTS AL FIXE			FUEI		LUB.	VARI	TAL ARIF	INT.	Há	/TIME	
RACTOR (4.)	4	1.05	0	-06	0.16		1.27	G.	72	1.49)	0.22	2.4	44	1.06		1.00	
FFSET DISK	37	1.66		.07	0.21		1.94		43	0.0		0.0	0.4		1.24		0.13	
HISEL	42	0.52 2.12		.02	0.06 0.26		0.61 2.48		83	0.0		0.0	0.8		0.39		0.21 0.10	
NHYDROUS APPLIC		0.56		.03	0.07		0.66		37	0.0		0.0	0.1		0.43		0.26	
RY FERT SPREAD	71	0.68	0	.03	0.08		0.80	0.	29	0.0		0.0	0.2	29	0.51		0.09	
RILL WO/FERT	61	1.65		-07	0.21		1.93	0.	44 	0.0		0.0 	0,4	+4 	1.24		0.18	
OPERATION	IT EM NO.				MACH I NE HOURS													
WEEP	4,41			0.122	0.101		0.35		0.6									
OFFSET DISK ANHYDROUS APPLIC	4,37 4,73			0.157 0.310	0.129 0.257		0.40 0.78		0.74									
ORILL WO/FERT	4.61	SEP	1.00	0.217	0.179		0. 56		1.0									
RY FERT SPREAD	4,71	FEB	1.00	0.112	0.093		0.28		0.36	6								
DRY FERT SPREAD				0.112	0.093		0.28		0.36									
HISEL DISK	4,37 4,42		1.00		0.129 0.210		0.40 0.59		0.74 L.Q.Z									
TOTAL	.,			1.440	1.190		3.65		5.5	9								

TABLE XLVII

CONVENTIONAL TILLAGE GRAIN SORGHUM ON CLAY LOAM SOIL
UNDER HEAVY SURFACE IRRIGATION

CAT EGORY	UNITS	PRICE	YT ITMAUQ	VALUE
PRODUCTION:				
MILO	CWT.	2.340	62.000	145.08
MILG STUBBLE	AUMS	6.000	62.000 1.000	6.00
TOTAL RECEIPTS				151.08
OPERATING INPUTS:				
MILO SEED	LBS.	0.270	10.000	2.70
NITROGEN	LBS.	0.300	125.000	37.50
	LBS.	0.140	25.000 1.000	3. 50
HER BICIDE	ACRE	5.630	1.000	3.50 5.63
INSECTICIDE	ACRE	2.200	1.000	2.20
	ACRE	10.000	1.000 1.000 62.000	10.00
	CWT.	0.100	62.000	6.20
TRACTOR FUEL COST	ACRE			3.57
	ACRE			1.73
TRACTOR LUBE COST	ACRE			0.54
EQUIP REPAIR COST	ACRE	,		1.12
A IRRIG FUEL COST	ACRE			5.85
EQUIF REPAIR COST IRRIG FUEL COST IRRIG LUBE COST IRRIG REPAIR COST	ACRE			1.07
1 IRRIG REPAIR COST	ACRE			2. 91
TOTAL OPERATING COST				84.52
RETURNS TO LAND, LABOR, CAPITAL, MACHINERY,				
OVERHEAD, RISK, AND MANAGEMENT				66.56
CAPITAL CCST:				
ANNUAL OPERATING CAPITAL		0.100	29.316	2.93
TRACTOR INVESTMENT		0.100 0.100 0.100 0.100	25.417	2.54
EQUIPMENT INVESTMENT		0.100	13.702	1.37
IRRIGATION SYSTEM INVESTMENT	*	0.100	55.650	5.57
TOTAL INTEREST CHARGE				12. 41
RETURNS TO LAND, LABOR, MACHINERY, OVERHEAD, RISK AND MANAGEMENT				54. 15
OWNERSHIP COST: (DEPRECIATION, TAXES, INSURANCE)	•			
TRACTOR	DOL.			3.04
EQUIPMENT	DOL.			1.99
IRRIGATION SYSTEM	DOL.			11.72
TOTAL CWNERSHIP COST	5524			16.75
RETURNS TO LAND, LABOR, OVERHEAD,			******	
RISK AND MANAGEMENT				37.40
LABOR COST:				
MACHINERY LABOR	HR.	3.000	2.739	8 - 22
IRRIGATION LABOR	HR .	3.000	2.739 1.248	3. 74
TOTAL LABOR COST				11.96
RETURNS TO LAND, CVERHEAD,				

PANHANDLE ENERGY BUDGETS

ENTERPRISE 73 AREA AND COUNTY 12 DETAIL QQ IRIG. LEVEL & LAND CLASS 1 GRAZING 3 MACH. COMP. _1 IRIG. SYSTEM 5 PRICE VECT 1 INDIV. NUMBER _Q ANUAL CAPITAL MONTH: 10 DATE PRINTED: 03/05/75

TABLE XLVII (Continued)

										7								
	. 1	2 PEB	3 MAR	4 APR	5	6	7	8	9	10	11	12	13	14 WEIGHT	15	16	17	18
INE	JAN	FEB	TAK	APR	MAY	JUN	JUL	AUG	SEP	BCT	NOA	DEC	PRICE	MC (GHI		CODE	1100	Cun
POCUCT ION		11.			NUMB	ER OF I	UNITS	٠.							COILE	00171		
I MILO	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	62.00	0.0	0.0	2.340	0.0	16.	7.3 .	2.	0.
2 MILO STUBBLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.50		0.0		157.	2.	0
PERATING INPUTS	•			٠,	RA	TE/UNI1	Γ,		•	**			PRICE	NUMBER UNI TS			TYPE	CO
MILO SEED	0.0	0.0	0.0	0.0	0.0	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.270	0.0		173.	3.	0
NITROGEN	0.0	0.0		25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.300	0.0		211.	3.	ō
NITROGEN	0.0	0. C	0.0	0.0	0.0	0.0	25.00	0.0	0.0	0.0	0.0	0.0	0.140	0.0	12.	211.	3.	0
- FERBICIDE	0.0	0.0	0.0	0. C	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	5.630	0.0	7.	250.	3.	0
INSECTICIDE	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	2.200	0.0		240.	3.	0
6 CUSTOM COMBINE	0.0	.0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	10.000	0.0		305.	3.	e
CUSTOM HAULING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.00	0.0	0.0	0.100	0.0	16.	306.	3.	0
ACHINERY REQUIREMEN	NTS					TIMES	OVER						xxxxx	xxxxx		MACH	TYPE	CO
STALK SHREDDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0. 0	0.0	0.0	4.	81.	4.	0
OFFSET DISK	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	4.	37.	4.	0
CHISEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	4.	42.	4.	0
LAND FLANE	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	77.	4 .	0
CULTIBEDDER TILL	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	5 i •	4.	0
CULTIBEDDER TILL	0.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	51.	4.	0
DRY FERT SPREAD	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	71.	4.	0
5 ANHYDROUS APPLIC		0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	73.	4.	ď
S CULTIBEDOER PLNT	0.0	0.0	0.0	0.0	0.0	1.00		0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	67.	4.	0
7 FIELD CULTIVATOR	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	40.	4.	0
SPRAYER	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0. 0	0.0	0.0	0.0	0.0	0.0	0.0	2.	74.	4.	0
ACIN IRRIG WATER	0.0	0 • C	0.0	0.0	6.00	3.60	7.20	7.20	0.0	0.0	0.0	0.0						
PANHANDLE	EN ER GY	r BUDG	ETS											NERY CO			1	
													EQUIF	PHENT CO	MPL EM	ENT	1	
*NO NAME CHANGES	HAVE BE	EEN ST	ORED WI	тн тн	S BUD	GET***												
*NG COMPLEMENT CH	ANGES I		-															
CATEGURY	UNIT	MONT		MARY (JF REC	EIPTS /	AND EXF May	ENS ES AUL		IUL .	AUG	SEP	OCT	NOV	DEC		т	OTA
TAL RECEIPTS	ACRE			0.0	0.0	0.0	0.0	0.0			0.0		145.08	3.00	3.00			1.0
TAL EXPENSES	ACRE			. 0		38.19	2.87				2.95	0.0	16.20	1.53	0.0			4.5
TURNS TO LAND, LA									GEMEN									6.5
NUAL CAPITAL	DOL .	. 0	.0 (.0	0.76	19.10	1.20	4.0	1 2	.36	0.49	0.0	0.0	1.40	0.0		2	9.3
			REQU															
ACHINERY LABOR	HR.	0.	.0 (0.0	0.44	0.25	0.14	0.9	8 0	.31 (0.0	0.0	0.0	0.62	0.0			2.7

NO NAME CHANG	ES HAVE	BEEN STOR	ED WITH T	HIS BUDG	ET		4.							
NG COMPLEMENT	CHANGES	HAVE BEEF	STORED .	NI TH THI	S BUDG	GET*								
			Y SUMMARY											
CATEGURY	UN I		FEB	MAR	APR	HAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
TOTAL RECEIPTS	ACR		0.0	0.0	0.0	0.0	0.0	0.0	0.0		145.08	3.00	3.00	151.08
TOTAL EXPENSES RETURNS TO LAND,	LABOR.			1.30 OVERHE				9.43 IENT	2.95	0.0	16.20	1.53	0.0	84.52 66.56
ANNUAL CAPITAL	DOL	. 0.0	0.0	0.76	19.10	1.20	4.01	2.36	0.49	0.0	0.0	1.40	0.0	29.32
			REQUIREME											
ACTINERY LABOR	HR.		0.0	0.44	0.25		0.98	0.31	0.0	0.0	0.0	0.62	0.0	2.74
IRRIGATION LABOR		0.0	0.0	0.0	0.0	0.31	0.19	0.37	0.37	0.0	0.0	0.0	0.0	1.25
TOTAL LABOR	HR.	0.0	0.0	0.44	0.25	0.45	1.16	0.68	0.37	0.0	0.0	0.62	0.0	3.99
IRRIGATION WATER	INC	H 0.0	Q. O	0.0	0.0	6.00	3.60	7.20	7.20	0.0	0.0	0.0	0.0	24.00
			ERY FIXED								TO	TAL		
MACHINE	CODE	DEPR	INSUR.	TAX		AL FIXED	REPAIR		VEL	LUB.		ABLE	INT.	FR. / T IME
	2	0.73	0.04	0.11		0.88	0.50		.04	0.16			0.74	1.00
RACTOR (4)	4	1.05	0.06	0.16		1.27	0.72		•49	0.22			1.06	1.00
	81	0.59	0.02	0.06		0.68	0.33		•0	0.0	٥.		0.39	0.18
FFSET DISK	37.	1.66	0.07	0.21		1.94	0.43		•0	0.0	٥.		1.24	0.13
HISEL	42	0.52	0.02	0.06		0.61	0.14		.0	0.0	0.		0.39	2.21
ANC PLANE	77	0.64	0.06	0.13		0.84	1.15		.0	0.0	1.		1.03	3.47
ULTIBEDDER TILL		0.69	0.03	0.09		0.80	0.95		•0	0.0	. 0.		0.51	0.11
ULTIBEDDER TILL		0.69	0.03	0.09		0.80	0.95		•0	0.0	. 0.		0.51	0.11
DRY FERT SPREAD		0.68	0.03	0.08		0.80	0.29		•0	0.0	٥.		0.51	
ANHYDROUS APPLIC		0.56	0.03	0.07		0.66	0.37		. 0	0.0	0. 0.		0.43	0.26
CULTIBEDDER PLNT		1.24	0.05	0.13		1.42	0.77		.0	0.0			0.82	0.15
FIELD CULTIVATOR SPRAYER	74	0.60	0.03	0.07		0.70 0.47	0.25		-0 -0	0.0	0.		0.45	0.24 0.30
						0.47								V.5C
OPERATION	ITEM NO.	CATE OV	MES LABOR ER HOURS	MACHINE HOURS	FUEL .	OIL,LUB.	FIXE	D COST	S		•			
TALK SHREDDER	4,81			0.177		0.53		.64						
FFSET DISK	4,37			0.129		0.40		.74						
HISEL	4, 42			0.210		0.59		.75	. "					
FFSET DISK	4,37			0.129		0.40		3.74						
AND PLANE	4,77					0.90		-04						
CULTIBEODER TILL DRY FERT SPREAD	4,51	APR 1.0		0.093		0.42).45						
ULTIBEDDER TILL	4,51					0.28 . 0.42		. 36 . 45						
CULTIBEDDER TILL	4,51			0.115		0.42		.45						
CULTIBEDDER PLNT	4.67		0.139			0.42). 73						
FIELD CULTIVATOR	4.46		0.288			0.70		.89						
LICED COFFISAIOK	7,70	2014 TO	JU V.200	U . Z 30		J . I U		.07						

TABLE XLVIII

CONVENTIONAL TILLAGE GRAZED WHEAT ON CLAY LOAM SOIL WITH SURFACE IRRIGATION

CATEGORY	UNITS	PRICE	QUANTITY	VALUE
PRODUCTION: GRAZED WHEAT TOTAL RECEIPTS	AUMS	10.000	6.000	60.00 60.00
UPERATING INPUTS:				
WHEAT SEED	BU.	5.000	1,000	5.00
NITROGEN	LBS.	0.140	40.000	5.60
NITREGEN	LBS.	0.300	40,000	12.00
PHOSPHATE	LBS.	0.250	40.000	10.00
TRACTOR FUEL COST	ACRE			1.96
TRACT REPAIR COST	ACR E			0. 95
TRACTOR LUBE COST	ACRE			0.29
ECUIP REPAIR COST	ACRE:			0.45
IRRIG FUEL COST	ACRE			4.21
IRRIG LUBE COST	ACRE			1.13
IRRIG REPAIR COST	ACRE			4.34
TOTAL CPERATING COST				45. 93
RETURNS TO LAND, LABOR, CAPITAL, MACHINERY	' •			
OVERHEAD, RISK, AND MANAGEMENT				14.07
CAPITAL CCST:				
ANNUAL OPERATING CAPITAL		0.100	20,898	2.09
TRACTOR INVESTMENT		0.100	13.933 9.874	1.39
EQUIPMENT INVESTMENT		0.100	9 . 874	0. 99
IRRIGATION SYSTEM INVESTMENT		0.100	59.580	5.96
TOTAL INTEREST CHARGE				10.43
RETURNS TO LAND, LABOR, MACHINERY, OVERHEAD, RISK AND MANAGEMENT	*****			3.64
OWNERSHIP COST: (DEPRECIATION,				
TAXES, INSURANCE)		4.00	•	
TRACTOR	DOL.			1.67
EQUIPMENT	DOL.			1.54
IRRIGATION SYSTEM	DOL:			9. 41
TOTAL CWNERSHIP COST				12.62
PETURNS TO LAND, LABOR, CVERHEAD, RISK AND MANAGEMENT				-8.98
LABCR COST:				
MACHINERY LABOR	HR.	3-000	1.440	4.32
IRRIGATION LABOR	HR.	3.000	0.936	2.81
TCTAL LABOR CCST	FIX •	3.000	0. 750	7.13
RETURNS TO LAND, OVERHEAD,				

PANHANDLE ENERGY BUDGETS

4.2.

ENTERPRISE 89 AREA AND COUNTY 12 CETAIL QQ IRIG. LEVEL 5 LAND CLASS 1 GRAZING 6 MACH. COMP. 1 IRIG. SYSTEM 5 PRICE VECT 1 INDIV. NUMBER Q ANNUAL CAPITAL MONTH: 6 DATE PRINTED: 03/05/75

TABLE XLVIII (Continued)

					7.5													
	1 JAN	FE B	3 Mar	4 · APR	MAY	6 NUL	7 JUL	8 AUG	S EP	10. OCT	11 NOV	12 DEC	13 PRICE	14 WE IGH		16	17	18 CONT
INE	JAN		-	Ar n	1			~00	a un		1101	DEC.	PRIOL	#£ 1011		CODE	,,,,,	CONT
RODUCTION 1 GRAZED WHEAT	0.25	0. 25	0.75	0.90		R. OF 1	NITS 0.0	0.0	0.0	0.60	0.90	0.75	10.000	0.0	10.	70.	2.	0.
PERATING INPUTS		.4			RAT	E/UNIT							PRICE	NUMBER	UNIT	II EM	TYPE	CONT
						,									CODE			_
1 WHEAT SEED 2 MITROGEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.00	0.0	0.0	0.0	0.0	5.000 0.140	0.0		174. 211.		0.
3 NITROGEN	0.0		20.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.300	0.0		211.	3.	ŏ.
4 FHOSPHATE	0.0		20.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.250	0.0		214.	з.	o.
ACHINERY REQUIRE	MENTS					TIMES	OVER						XXXXX	xxxxx	POWEF	MACH	TYPE	CONT
8 CFFSET DISK	0.0	0.0	0.0	0.0	0.0	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.40	0.0	4.	37.	4.	0.
9 CHISEL	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.		4.	0.
O SWEEP	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	41.	4.	0.
1 ANHYDROUS APPL 2 DRY FERT SPREA		0.0	0.0	0.0	0.0	0.0	0.0	1.00		0.0	0.0	0.0	0.0	0.0	•	73.	4-	٥.
3 DRILL WO/FERT	0.0 0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.		4.	0.
S UNILL WOFFERS	0.0		. 0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.5	7.	61.	٠.	٠.
9 ACIN IRRIG WAT	ER 0.0	0.0	3.00	3-00	3.00	0-0	0.0	3.00	0.0	3.00	3.00	0.0						
			3.00	2000				2.00		3 400								
PANHANE	LE ENERG	Y BUCGI	ET S											NERY C			į	
													FQU11	MENT C	TWELT FE	tN1	ì	
***NO NAME CHANGE	S HAVE B	EEN STO	JRED WI	TH TH	IS BUDG	ET ***												
**** COUNTEMENT	CHANGE				. T T													
***NC COMPLEMENT	CHAM PE2	DAVE B	EN 310	THEU W		3 BODE)C (* **											
					OF RECE													
CATEGORY	UNIT			-EB	MAR	APR	MAY	Jui			AUG	SEP	DCT	NOV	DEC			0141
OTAL RECEIPTS	ACRE				7.50	9.00	16.00	0.0			0.0	0.0	6.00	9.00	7.50			0.20
CTAL EXPENSES RETURNS TO LAND,	ACR E				12.89	1.61	1.61			35	8.40	5.56	1.61	1.61	0.0			5.73 4.07
LICKES IC CPROF	LPDUNY C				OVERIL		30, 40		OC HEN							<u> </u>		
NNUAL CAPITAL	DOL.	0	.0 3	3.76	3. 22	0.27	0.13	0.0	0.	32	7.00	4.17	1.08	0.94	0.0		2	J. 70
ACTINERY LABOR	HR.			REMEN	TS BY MI 0.11	0.0	0.0	. C.4	.ı o.	12	0.47	0.22	0.0	0.0	0.0			1.44
RR IGATION LABOR	HR.			. 0	0.16	0.16	0.16				0.16	0.0	0.16	0.16	2.0			0.44
TOT AL LABOR	HR.	ō.		.11	0.27	0.16	0.16				0.62	0.22	0.16	0.16	0.0			2.38
IRP IGATION WATER	INCH	0.	.0 0	.0	3.00	3.00	3.00	0.0	0.	0 .	3.00	0.0	3.00	3.00	0.0		ı	8.00
					AND VAR								TOI					
MACHINE	CODE	DEPR		UR.	TAX		LFIXE		PAIR	FUE		LUB.	VARIA		INT.		AL INE	
FRACTOR (4)		1.05		.06	0.16		1.27		72	1.4		0.22	2.4		1.06		1.00	
FFSET DISK	37 42	1.66 0.52		.07 .02	0.21 0.06		1.94 0.61		14	0.0		0.0	0.4		1.24		0.13 0.21	
MEEP	41	2.12		09	0.06		2.48		83	0.0		0.0	0.8		1.57		0.10	
NHYDROUS APPLIC	73	0.56		.03	0.07		0.66		37	0.0		0.0	0.0		0.43		0.26	
RY FERT SPREAD	71	0.68	ō.	03	0.08		0.80		29	0.0		0.0	0.2		0.51		0.09	
RILL WO/FERT	61	1.65		07	0.21		1.93		44	0.0		0.0	0.4		1.24		0.18	
	ITEM		TMEC .	ARITO	MACHINE	E(IE)	nti		I YED 7	nste								
OPERATION		DATE (BVER H	IOURS	HCURS	REPAI	R PER	ACRE	PER AC	RE								
WEEP				.122	0.101		. 35		0.67									
FFSET DISK	4,37	AUG 1	1.00 0	1.157	0.129		.40		0.74									
NHYDROUS APPLIC	4,73			.310	0.257		. 78		0.94									
RILL WO/FERT				. 217	0.179		. 56		1.03									
DRY FERT SPREAD					0.093		- 28		0.36									
RY FERT SPREAD					0.093		28		0.36									
FFSET DISK HISEL					0.129		. 40		0.74									
TOTAL	7,72	30M 3	ب 1.00	.440	1.190		1.59 1.65		-0.15 5.59									

TABLE XLIX

CONVENTIONAL TILLAGE SUDAN HAY ON CLAY LOAM SOIL WITH SURFACE IRRIGATION

CATEGORY	UNITS	PRICE	QUANTITY	VALUE
PRODUCTION:	,			
SUDAN	TONS	22.000	5.000	110.00
TOTAL RECEIPTS				110.00
OPERATING INPUTS:				
SUDAN SEED	LBS.	0.270	10.000	2.70
NITROGEN	LBS.	0.140	100.000	14.00
SWATHING	ACRE	3.160	2.000	6. 32
BALER	BL .	0.280	150.000	42.00
BALE-LCADER	BL.	0.150	150.000	22.50
TRACTOR FUEL COST	ACRE			1.64
TRACT REPAIR COST	ACRE			0.79
TRACTOR LUBE COST	ACRE -			0. 25
EQUIP REPAIR COST	ACRE	•		0.79
IRRIG FUEL COST	ACRE			8.13
IRRIG LUBE COST	ACRE			1.63
	AC RE			12.62
TCTAL OPERATING COST				113.37
RETURNS TO LAND, LABOR, CAPITAL, MACHINERY	, ,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
OVERHEAD, RISK, AND MANAGEMENT				-3.37
CAPITAL COST:				
ANNUAL OPERATING CAPITAL		0.100	21.233	2.12
TRACTOR INVESTMENT		0.100	11.659	1.17
EQUIPMENT INVESTMENT		0.100	6.544	0.65
IRRIGATION SYSTEM INVESTMENT		0.100	21.233 11.659 6.544 128.040	12.80
TOTAL INTEREST CHARGE				16.75
RETURNS TO LAND, LABOR, MACHINERY,			÷	,
OVERHEAD. RISK AND MANAGEMENT				-20.12
OWNERSHIP COST: (DEPRECIATION.				
TAXES, INSURANCE)			•	
TRACTOR	DOL.			1.39
EQUIPMENT	DOL.			1.04
IRRIGATION SYSTEM	DOL.			9.39
TOTAL CWNEFSHIP COST				11. 83
RETURNS TO LAND, LABOR, OVERHEAD,				
RISK AND MANAGEMENT			d v	- 31. 95
LABCR COST;				
MACHINERY LABOR	HR •	3.000	1.205	3. 62
IRRIGATION LABOR	HR.	3.000 3.000	1.248	3.74
TOTAL LABOR COST				7.36
RETURNS TO LAND, OVERHEAD,				
RISK AND MANAGEMENT				-39.31

PANHANDLE ENERGY BUDGETS.

ENTERPRISE 81 AREA AND COUNTY 12 DETAIL QQ IRIG. LEVEL & LAND CLASS 1 GRAZING 7 MACH. COMP. 1 IRIG. SYSTEM 4 PRICE VECT 1 INDIV. NUMBER Q ANNUAL CAPITAL MONTH: 9 DATE PRINTED: 03/05/75

TABLE XLIX (Continued)

														•				
	. 1	2 FEB	3 Mar	APR	MAY	6 JUN	7	- 8 AUG	9	10	11	12	. 13		15	16	17	18
INE	JAR	FED	MAK	AFR	HAT	JUN	JU L	AUG	SEP	OCT	NOV	DEC	PRICE	MEIGH		CODE	1176	COM
PRODUCTION					NUMBE	R OF L	INTTS											
1 SUDAN	0.0	- C. C	0.0	0.0	0.0	0.0	3.50	1.50	0.0	0.0	0.0	0.0	22.000	0.0	3.	87.	2.	٥.
PERATING INPUTS					047	e / mr 1								****			T W/1 C	CONT
DEENNITHO INFOIS					KAI	E/UNI 1							PRICE		R UNIT. S CGDE		ITPE	CUN
11 SUDAN SEED	0.0	0.0	0.0	0.0	0.0	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.270	0.0		187.	3.	0.
12 NITROGEN	0.0	0.0	0.0	0.0	100.00		0.0	0.0	0.0	0.0	0.0	0.0	0.140	0.0		211.	3.	0.
13 SHATHING	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	0.0	0.0	3.160	0.0	7.	392.	3.	٥.
14 BALER	0.0	0.0	0.0	0.0	0.0		05.00		0.0	0.0	0.0	0.0	0.280	0.0		388.	3.	٥.
15 BALE-LOADER	0.0	0.0	0.0	0.0	0.0	0.0	05.00	45.00	0.0	0.0	0.0	0.0	0.150	0.0	6.	385.	3.	٥.
ACHINERY REQUIR	EMENTS					TIMES	OVER						XXXXX	XXXXX	POWER		TYPE	CON
8 OFFSET DISK	0.0	0.0	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	200E	4.	0.
39 M.B. PLOW	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	32.	4.	ŏ.
40 CULTIBEDDER PL		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	67.	4.	ō.
41 POW CULTIVATOR	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	45.	4.	0.
											•							
49 ACIN IRRIG WAT	FER 0.0	0.0	0.0	0.0	6.00	3.60	7.20	7.20	0.0	0.0	0.0	0.0						
PANHANI	DLE ENERG	Y BUDGI	ETS.											NERY C			1	
													EQUIP	MENT C	3MPL EM	FNT	1	
		**																
***NO NAME CHANG	ES HAVE R	SEN ST	neen wi	TH TH	IS BUIDS	FT ***												
AO COMPLEMENT	CHANGES						SET											
		HAVE BE	EEN STO	ORED W	ITH THE	S BUDG	ND EXP											
CATEGORY	UNIT	HAVE BE	EEN STO	RED W	OF RECE	S BUDG	ND EXP	JUN		UL	AUG	SEP	OCT	NOV	DEC			CTAL
CATEGORY TOTAL RECEIPTS	UNIT AGRE	HAVE BI	HLY SUM	MARY	OF RECE	S BUDG	ND EXP	0.0 0.0	77	.00 3	3.00	0.0	0.0	0.0	0.0		11	0.00
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES	UNIT AGRE AGRE	HAVE BE	HLY SUM	MARY E8 0.0	OF RECE MAR 0.0 0.40	S BUDG	ND EXP MAY 0.0 21.22	0.0 0.0 100	77 6 55	.00 3							11	
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES	UNIT AGRE AGRE	HAVE BE	HLY SUM	MARY E8 0.0	OF RECE MAR 0.0 0.40	S BUDG	ND EXP MAY 0.0 21.22	0.0 0.0 100	77 6 55	.00 3	3.00	0.0	0.0	0.0	0.0		11	0.00 3.37
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND,	UNIT AGRE AGRE	MONTE JO O APITAL	HLY SUM AN F •O O	MARY E8 0.0	OF RECE MAR 0.0 0.40	S BUDG	ND EXP MAY 0.0 21.22	UL 0.0 0.0 0.0 0.0 0.0 0.0	77 6 55 GEMEN	.00 3	3.00	0.0	0.0	0.0	0.0		11	0.00 3.37
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND,	UNIT ACRE ACRE LABOR, C	MONTE OC.	HLY SUMAN FOO O	MARY FEB 0.0 1.43 INERY,	OF RECE MAR 0.0 0.40 CVERHE	S BUDG	ND EXP MAY 0.0 21.22 (SK, A)	UL 0.0 0.0 0.0 0.0 0.0 0.0	77 6 55 GEMEN	.00 3 .03 2	3.00	0.0	0.0	0.0	0.0		11 11 - 2	0.00 3.37 3.37
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND. ANNUAL CAPITAL	UNIT AGRE ACRE LABOR, C	MONTE O. APITAL	HLY SUMAN FOR MACHINE	ORED N HMARY FEB 0.0 1.43 INERY, 0.84	OF RECE MAR 0.0 0.40 CVERHE 0.20	S BUDG APR 0.0 0.0 SAD, RI	7.01	JUN 0.0 2 6.0 ND MANA 7 1.5	77 16 55 IGEMEN 11 9	.00 3 .03 2 T	2.44	0.0	0.0	0.0	0.0		11	0.00 3.37 3.37 1.23
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR IRR IGATION LABOR	UNIT ACRE ACRE LABOR, C DOL.	MONTE O O APITAL	EEN STO	MARY FEB 0.0 1.43 INERY, 0.84 IR EMEN 0.42	OF RECE MAR 0.0 0.40 CVERHE 0.20 ITS BY M 0.16 0.0	S BUDG IPTS A APR 0.0 0.0 CAD, RI 0.0 ONTH 0.0 0.0	7.01	JUN 0.0 2 6.0 ND MANA 7 1.5 3 0.0	77 16 55 IGEMEN 11 9	.00 3 .03 2 T	2.44 0.0 0.37	0.0	0.0	0.0	0.0		11 11 2	0.00 3.37 3.37
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR IRR IGATION LABOR	UNIT AGRE ACRE LABOR, C	MONTE O. APITAL	EEN STO	ORED N HMARY FEB 0.0 1.43 INERY, 0.84	OF RECE MAR 0.0 0.40 CVERHE 0.20	S BUDG APR 0.0 0.0 SAD, RI	7.01	JUN 0.0 2 6.0 ND MANA 7 1.5 3 0.0	77 16 55 IGEMEN 11 9	.00 3 .03 2 T	2.44	0.0	0.0	0.0	0.0		11 11 2	0.00 3.37 3.37 1.23
CATEGORY TOTAL RECEIPTS OTAL EXPENSES LETURNS TO LAND, ANNUAL CAPITAL HACKINERY LABOR RER IGATION LABOR TOTAL LABOR	UNITACRE ACRE LABOR. C DOL. HR. HR.	MONTE SI OLI COLO COLO COLO COLO COLO COLO COLO	EEN STO	MARY FEB 0.0 1.43 INERY, 0.84 IR EMEN 0.42	0.40 CVERHE 0.020 TS BY P 0.16 0.0	S BUDG IPTS A APR 0.0 0.0 AD, R 0.0 ONTH 0.0 0.0	7.07	JUN 0.0 2 6.0 ND MANA 7 1.5 3 0.0 1 0.1	77766 55 GEMEN 61 9 0 0 9 0	.00 3 .03 2 T .17	2.44 0.0 0.37 0.37	0.0	0.0	0.0	0.0		2	0.00 3.37 3.37 1.23 1.21 1.25 2.45
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES LETURNS TO LAND, ANNUAL CAPITAL HACKINERY LABOR IRR IGATION LABOR TOTAL LABOR	UNIT ACRE ACRE LABOR, C DOL.	MONTH JOSEPH CONTROL OF CONTROL O	EEN STO	IMARY FEB 1.0 1.43 INERY 1.0 1.42 1.0 1.42 1.0 1.0 1.42	OF RECE MAR 0.0 0.40 CVERHE 0.20 TS BY M 0.16 0.0	S BUDG IPTS A APR 0.0 0.0 OAD, R 0.0 ONTH 0.0 0.0 0.0	ND EXP MAY 0.0 21.22 (SK, AN 7.07 0.63 0.31 0.94	JUN 0-0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	77766 5556GEMEN	.00 3 .03 2 T .17	2.44 0.0 0.37	0.0	0.0	0.0	0.0		2	0.00 3.37 3.37
CATEGORY OTAL RECEIPTS OTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR RIRR IGATION LABOR TOTAL LABOR	UNITACRE ACRE LABOR. C	HAVE BE MONTH OF THE MONTH OF T	EEN STO	MARY E8 0.0 1.43 INERY, 0.84 IR EMEN 0.42 0.0 0.42	OF RECE MAR 0.0 0.40 CVERHE 0.20 ITS BY M 0.16 0.0 0.16	S BUDG IPTS APR 0.0 0.0 AD, RI 0.0 ONTH 0.0 0.0 IABLE	ND EXP MAY 0.0 21.22 (SK, AN 7.07 0.63 0.31 0.94	JUN 0-0 2 6-0 ND MANA 7 1-5 3 0-0 1 0-1 1 0-1 PER HO	77 16 55 16 55 16 55 16 19 9 10 0 19 0 19 0 10 7	.00 3 .03 2 T .17	2.44 0.0 0.37 0.37	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0		2	0.00 3.37 3.37 1.23 1.21 1.25 2.45
CATEGORY FOTAL RECEIPTS FOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL HACHINERY LABOR FOTAL LABOR TOTAL LABOR IRR IGATION WATER MACHINE	UNITACRE ACRE LABOR. C DOL. HR. HR.	HAVE BI	HLY SUMAN FACTOR OF THE PROPERTY FACTOR OF TH	MARY FEB 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	OF RECE MAR O.O O.40 CVERHE O.20 TS BY M O.16 O.0 O.16 O.0 AND VAR TAX	S BUDG IPTS / APR 0.0 0.0 0.0 AD, R: 0.0 0.0 0.0 0.0 IABLE TOT/	ND EXP MAY 0.0 21.22 (SK, AM 7.07 0.63 0.31 0.94	JUN 0.00 2 6.00 MANA 7 1.5 3 0.00 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.	77 16 55 16 55 16 55 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	.00 3 .03 2 T .17 .0 .37 .37 .20	2.44 0.0 0.37 0.37	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VARIA	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0		2 /T IME	0.00 3.37 3.37 1.23 1.21 1.25 2.45
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR TOTAL LABOR TOTAL LABOR IRR IGATION WATER MACHINE MACHINE MACHINE MACHINE TRACTOR (4)	UNITA ACRE ACRE LABOR. C DOL. HR. HR. HR.	HAVE BE MONTH OF THE MONTH OF T	EEN STO	MARY E8 0.0 1.43 INERY, 0.84 IR EMEN 0.42 0.0 0.42	OF RECE MAR 0.0 0.40 CVERHE 0.20 ITS BY M 0.16 0.0 0.16	S BUDG IPTS A APR 0.0 0.0 AD, R 0.0 ONTH 0.0 0.0 O.0 IABLE TOTA	ND EXP MAY 0.0 21.22 (SK, AN 7.07 0.63 0.31 0.94	JUN 0.00 2 6.00 MANA 7 1.55 3 0.00 1 0.11 0.11 0.11 0.11 0.11 0.11	77 16 55 16 55 16 55 16 19 9 10 0 19 0 19 0 10 7	.00 3 .03 2 T .17	2.44 0.0 0.37 0.37	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0		2	0.00 3.37 3.37 1.23 1.21 1.25 2.45
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR TOTAL LABOR TOTAL LABOR IRR IGATION WATER MACHINE TACTOR (4) DOFSET- DISK M.B. PLON	UNITAGE AGENT AGEN	HAVE BE MONTE OF THE PROPERTY	HLY SUMAN FACTOR OF THE PROPERTY FOR THE	ORED W HARY FEB 0.00 1.43 INERY, 0.84 IR EMEN 0.42 0.42 0.42 0.42 0.42 0.42	0. 20 TS BY P 0.16 0.0 0.16 0.0 0.16 0.0 0.16	S BUDG IPTS / APR 0.0 0.0 CAD, R: 0.0 O.0 O.0 O.0 O.0 IABLE TOT/	7.07 0.63 0.63 0.63 0.94 6.00 COSTS 1.27	JUN 0.00 2 6.00 2 6.00 MANA 7 1.55 3 0.00 1 0.11 0 3.60 PER HO ED REP 0.00	77 16 55 16 55 16 19 0 19 0 19 0 10 7 10 7 10 7 10 7 10 7 10 7 10 7 10	.00 3 .03 2 T .17 .0 .37 .37 .20	2.44 0.0 0.37 0.37 7.20	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VARIA 2.4 0.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.10 1.06 1.24 0.29		7 T IME 11.00 0.13	0.00 3.37 3.37 1.23 1.21 1.25 2.45
CATEGORY OTAL RECEIPTS TOTAL EXPENSES LETURNS TO LAND, ANNUAL CAPITAL HACHINERY LABOR TOTAL LABOR IRR IGATION WATER PACHINE FRACTIOR(4) JEFSET-DISK WAS PLOW	UNITAGE ACRE ACRE LABOR, CODE 4 37 32 67	MONTE SI MON	HLY SUM AN F O O 1 , MACHI	DRED WARY FEB 10-0 10-0 10-0 10-0 10-0 10-0 10-0 10-	OF RECE MAR 0.0 0.40 CVERHE 0.20 TS BY M 0.16 0.0 0.16 0.0 AND VAR TAX 0.16 0.21 0.20	S BUDG IPTS A APR 0.0 0.0 0.0 AD, R 0.0 0.0 O.0 O.0 IABLE TOTA	7.07 0.63 0.31 0.94 6.00 COSTS SL FIXE 1.27 1.94 0.46	JUN 0.00 2 6.00 6.00 MANA 7 1.55 3 0.01 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.	77 16 55 16 55 16 55 16 19 0 19 0 19 0 19 0 10 7 10 7 10 7 10 7 10 7 10 7 10 7 10	.00 3 .03 2 T .17 .20 .20 .37 .37 .20	2.44 0.0 0.37 0.37 7.20	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VARIA 2.4 0.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 1.06 1.24 0.29 0.82		2 /T IME 1.00 0.35 0.15	0.00 3.37 3.37 1.23 1.21 1.25 2.45
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL HACHINERY LABOR TOTAL LABOR TOTAL LABOR MACHINE TRACTION WATER MACHINE TRACTION (4) DEFSET-DISK N-B. PLOH CULTIBEDDER PLNY	UNITAGE AGENT AGEN	HAVE BE MONTE OF THE PROPERTY	HLY SUM AN F O O 1 , MACHI	ORED W HARY FEB 0.00 1.43 INERY, 0.84 IR EMEN 0.42 0.42 0.42 0.42 0.42 0.42	0. 20 TS BY P 0.16 0.0 0.16 0.0 0.16 0.0 0.16	S BUDG IPTS A APR 0.0 0.0 0.0 AD, R 0.0 0.0 O.0 O.0 IABLE TOTA	7.07 0.62 0.31 0.63 0.31 0.94 6.00 COSTS SL FIXE 1.27	JUN 0.00 2 6.00 6.00 MANA 7 1.55 3 0.01 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.	77 16 55 16 55 16 19 0 19 0 19 0 10 7 10 7 10 7 10 7 10 7 10 7 10 7 10	.00 3 .03 2 T .17 .17 .20	2.44 0.0 0.37 0.37 7.20	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VARIA 2.4 0.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.10 1.06 1.24 0.29		7 T IME 11.00 0.13	0.00 3.37 3.37 1.23 1.21 1.25 2.45
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL HACHINERY LABOR TOTAL LABOR TOTAL LABOR MACHINE TRACTION WATER MACHINE TRACTION (4) DEFSET-DISK N-B. PLOH CULTIBEDDER PLNY	UNII ACRE LABOR, CODE 4 37 32 67 45	MAVE BE MONTH IN THE MONTH IN T	HLY SUMAN FOR COLUMN CO	ORED WHARY HEED OF THE PROPERTY OF THE PROPERT	0. 20 TS BY M 0. 0 0. 16 0. 0 AND VAR TAX 0. 16 0. 21 0. 22 0. 13 0. 16	S BUDG IPTS APR 0.0 0.0 AD, RI 0.0 ONTH 0.0 0.0 IABLE TOTA	0.00 21.22 (SK, AM 7.07 0.62 0.31 0.94 6.00 COSTS AL FIXE 1.27 0.46 1.42 0.70	JUN 0.00 2 6.00 6.00 6.00 6.00 6.00 6.00 6.	0 77 06 55 06 65 07 00 09 0 09 0 00 7 00 7 00 7 00 7 00	.00 3 .03 2 T .17 .17 .00 .37 .37 .20 .20	2.44 0.0 0.37 0.37 7.20	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VARIA 2.4 0.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 1.06 1.24 0.29 0.82		2 /T IME 1.00 0.35 0.15	0.00 3.37 3.37 1.23 1.21 1.25 2.45
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES TOTAL EXPENSES TOTAL EXPENSES TOTAL EXPENSES TOTAL LABOR THRET	UNITAGE ACRE ACRE LABOR, CODE 4 37 32 67	HAVE BI MONTH JI O. O.APITAL, O. C.APITAL, O. O. O. O. O. O. O. O. O. O.	HLY SUPAN FOR COLOR COLO	MARY , 18 EM EN	OF RECE MAR 0.0 0.40 CVERHE 0.20 TS BY M 0.16 0.0 0.16 0.0 AND VAR TAX 0.16 0.21 0.20	S BUDG IPTS APR O-0 O-0 O-0 ONTH O-0 O-0 IABLE TOTA	0.02 0.02 21.22 (SK, AN 7.07 0.63 0.31 0.94 6.00 COSTS 1.27 1.27 1.29 0.46	JUN 0.00 2 6.00 6.00 MANA 7 1.5 3 0.00 1.5 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0	77. 16. 55. 16. 55. 16. 55. 16. 55. 17. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.00 3 .03 2 T .17 .17 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20	2.44 0.0 0.37 0.37 7.20	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VARIA 2.4 0.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 1.06 1.24 0.29 0.82		7T IME 1.00 0.35 0.15	1.23 1.21 1.25 2.45
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES NETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR TOTAL LABOR TOTAL LABOR MACHINE FRACTOR (4) DEFSET-DISK N-B. PLON CULTIBEDDER PLNT NCM CULTIVATOR	UNITAL ACRE ACRE ACRE LABOR, CODE 4 37 22 67 45	MACH1 DEPR 1.066 0.39 1.260 DATE	HLY SUMAN FOR COLUMN CO	DRED N NERT N NERT N NERT N NERT N N N N N N N N N N N N N N N N N N N	OF RECE MAR O-0 O-40 CVERHE O-20 TS BY M O-16 O-0 AND VAR TAX G-16 O-05 O-07 MACHINE	S BUDGE S BUDG	0.00 21.22 (SK, AN 7.07 0.63 0.94 6.00 COSTS LL FIXE 1.27 1.94 0.46 1.42 0.70	JUN 0.00 2 6.00 6.00 MANA 7 1.5 3 0.00 1.5 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0	77. 66 55. GEMEN 51 9 0 0 9 0 9 0 9 0 9 0 7 0 9 0 7	.00 3 .03 2 T .17 .17 .20 .37 .20 .20	2.44 0.0 0.37 0.37 7.20	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VARIA 2.4 0.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 1.06 1.24 0.29 0.82		7T IME 1.00 0.35 0.15	1.23 1.21 1.25 2.45
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL HACHINERY LABOR TOTAL LABOR IRR IGATION WATER MACHINE TRACTOR (4) DEFSET - DISK M-8- PLON CULTIVATOR OPERATION M-8- PLON	UNIT ACRE LABOR, (CDDL - HR.	MAVE BI MONTH JI O. APITAL O. LABOR O. O. O. MACHI DEPR 1.05 1.66 O.35 1.24 O.60	EEN STO	DRED N MERY, 10.00 1.43 10.42 10.42 10.42 10.42 10.42 10.42 10.42	0. 20 TS BY MO. 16 0. 0 AND VAR 1 0. 20 AND VAR 0. 16 0. 16 0. 16 0. 16 0. 16 0. 16 0. 16 0. 16 0. 16 0. 16 0. 16 0. 16	S BUDGE S BUDG	0.00 21.22 (SK, AM 7.07 0.63 0.31 0.94 6.00 COSTS L. FIXE 1.27 1.94 0.46 1.42 0.70	JUN 0.00 2 6.00 6.00 MANA 7 1.5 3 0.00 1.5 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0	77.66 55 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	.00 3 .03 2 T .17	2.44 0.0 0.37 0.37 7.20	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VARIA 2.4 0.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 1.06 1.24 0.29 0.82		7T IME 1.00 0.35 0.15	1.23 1.21 1.25 2.45
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR TOTAL LABOR TOTAL LABOR IRR IGATION WATER PACHINE REACTOR (4) DEFSET JISK M.B. PLOM CULTIBEDDER PLNT COMPONENT OF SET JOISK M.B. PLOM	UNITAL ACRE ACRE LABOR, C DOL. HR. HR. HR. INCH 200E 4 37 45 1TEM NO. 4,32 4,37	MACH: 00-60 MACH: 00-60 MACH: 00-60 DATE 00-60 DATE 00-60	LANCE OF THE STATE	DRED N HMARY 1-18 N 1-1	OF RECE MAR O.0 O.40 CVERHE O.20 TS BY MO.16 O.16 O.0 AND VAR O.16 O.21 O.01 AND VAR O.16 O.21 O.31 O.31 O.31 O.31 O.31 O.31 O.31 O.3	S BUDGE S BUDG	0.02 0.02 21.22 5K, AM 7.07 0.63 0.31 0.94 6.00 COSTS SL FIXE 1.27 1.94 0.46 1.42 0.70 0.41 1.42	JUN 0.00 2 6.00 6.00 MANA 7 1.5 3 0.00 1.5 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0	7776 556 556 66 556 66 556 66 556 66 56 56	.00 3 .03 2 T .17 .0 .37 .37 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20	2.44 0.0 0.37 0.37 7.20	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VARIA 2.4 0.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 1.06 1.24 0.29 0.82		7T IME 1.00 0.35 0.15	1.23 1.21 1.25 2.45
TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR TOTAL LABOR TOTAL LABOR TOTAL LABOR MACHINE TRACTOR (4) OFFSET-DISK M.B. PLOM CULTIBEDDER PLNT ROW CULTIVATOR OPERATION M.B. PLOM OFFSET DISK OFFSET DISK	UNITACA ACRE LABOR, CODE 4 17 22 67 45 1TEM NO.	MAVE BI MONTH O. LABOI O. C. APITAL O. MACHI DEPR 1.05 1.66 C.35 1.24 O-60 DATE FEB MAR	EEEN STCC AND CO	RED W HARY 16-68 NO. 84	0.20 TS BY MO 0.16 0.00 AND VAR 0.16 0.16 0.16 0.16 0.16 0.17 MACHINE MO 0.12 0.12 0.12 0.12 0.12 0.12	S BUDGE S BUDG	0.00 EXF MAY 0.00 21.22 (SK, AF	JUN 0.00 2 6.00 6.00 MANA 7 1.5 3 0.00 1.5 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0	175 166 55 56 161 9 9 0 9 0 0 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.00 3 .03 2 T T	2.44 0.0 0.37 0.37 7.20	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VARIA 2.4 0.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 1.06 1.24 0.29 0.82		7T IME 1.00 0.35 0.15	0.00 3.37 3.37 1.23 1.21 1.25 2.45
TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR TOTAL LABOR TOTAL LABOR TOTAL LABOR IRR IGATION WATER MACHINE TRACTOR (4) OFFSET DISK OPERATION OPERATION OPERATION M.B. PLOW OFFSET DISK	UNITAL ACRE ACRE LABOR, CODE 4 37 45 1TEM NO.	MACH: 0-60 DATE 0-60 DATE 0-60 DATE 0-60 DATE 0-60	EEEN STCC AND CO	RED WHARY WEEK NO. 84 N	OF RECE MAR O.0 O.40 CVERHE O.20 TS BY MO.16 O.16 O.0 AND VAR TAX O.16 O.21 O.03 MACHINE HOURS O.129 O.129 O.129 O.150	S BUDGE S BUDGE APR 0.0 0.0 0.0 O.0 IABLE TOTA FUEL REPA	0.02 0.02 21.22 5K, AM 7.07 0.63 0.31 0.94 6.00 COSTS SL FIXE 1.27 1.94 0.46 1.42 0.70 0.41 1.42	JUN 0.00 2 6.00 6.00 MANA 7 1.5 3 0.00 1.5 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0	7776 556 556 66 556 66 556 66 556 66 56 56	.00 3 2 T T	2.44 0.0 0.37 0.37 7.20	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 VARIA 2.4 0.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 1.06 1.24 0.29 0.82		7T IME 1.00 0.35 0.15	0.00 3.37 3.37 1.23 1.21 1.25 2.45

TABLE L

CONVENTIONAL TILLAGE SOYBEANS ON CLAY LOAM SOILS WITH SURFACE IRRIGATION

CATEGORY	UNI TS	PRICE	QUANTITY	VALUE
PRODUCTION:				
SCYBEANS	BU.	3.280	45.000	147.60
TOTAL RECEIPTS				147.60
OPERATING INPUTS:				141.00
SCYBEAN SEED	LBS.	0.170	90.000 50.000 1.000 45.000	15.30
NITROGEN	LBS.	0.140	50.000	7. 00
CUSTOM COMBINE	ACRE	9.700	1.000	9.70
CUSTOM HAULING	BU.	0.100	45.000	4.50
HIRBICIDE	LBS.	7.250	1.000	7. 25
TRACTOR FUEL COST	ACRE			2.49
	ACRE			1.20
TRACTOR LUBE COST	ACRE .			0. 37
EQUIP REPAIR COST	ACRE .			0.53
TRRIC FUEL COST	ACRE			8. 13
IRRIG LUBE COST	ACRE			1.63
IPRIG REPAIR COST	ACRE			10.25
TOTAL CPERATING COST	•			68. 36
RETURNS TO LAND, LABOR, CAPITAL, MACHINERY	·		~~~~~~~	
GVERFEAD, RISK, AND MANAGEMENT				79. 24
CAPITAL COST:	• .			
ANNUAL OPERATING CAPITAL		0.100	17.419	1.74
TRACTOR INVESTMENT		0.100	17.728	1.77
EQUIPMENT INVESTMENT		0.100	10.542	1.05
IRRIGATION SYSTEM INVESTMENT		0.100	17.419 17.728 10.542 96.024	9.60
TOTAL INTEREST CHARGE	·			14.17
RETURNS TO LAND, LABOR, MACHINERY,				
OVERHEAD, RISK AND MANAGEMENT				65.07
OWNERSHIP COST: (DEPRECIATION,				
TAXES, INSURANCE)				
TRACTOR	DOL.			2. 12
EQUIPMENT	DOL.			1.66
IRRIGATION SYSTEM	DOL.			25.05
TOTAL CWNERSHIP COST				28.83
RETURNS TO LAND, LABOR, OVERHEAD,				
RISK AND MANAGEMENT				36, 24
LABCR COST:				
MACHINERY LABOR	HR.	3.000	1.833	5.50
IRRIGATION LABOR	HR.	3.000	1.248	3.74
TOTAL LABER CEST				9. 24
RETURNS TO LAND, OVERHEAD,				
RISK AND MANAGEMENT				27.00

PANHANCLE ENERGY BUDGETS

ENTERPRISE 98 AREA AND COUNTY 12 DETAIL 00 IRIG. LEVEL 6 LAND CLASS 1 GRAZING 0 MACH. COMP. _1 IRIG. SYSTEM 4 PRICE VECT 1 INDIV. NUMBER _0 ANNUAL CAPITAL MONTH:10 DATE PRINTED: 03/05/75

TABLE L (Continued)

		_			14.		_	- <u>*</u> -		1								
	1	2 FEB	. MAR	4 APR	MAY.	J UN	7 JUL	8 AUG	9 SEP	10 OCT	. 11 . NOV	12 DEC	PRICE	14	15 Funit	16	17 TYPE	18
.I NE	JAN	FED	HAK	APK	HAT	300	JUL	A UG	2F P	UCI	NLIV	DEC	PRICE	MEIGH		CODE	ITPE	CUN
RODUCT ION					NUMBE	R CF	JNITS								0000	٠		
1 SCYBEANS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.00	0.0	0.0	3.280	0.0	. 2.	98.	2.	0.
									- 1 ·									
DPERATING INPUTS	-				RAT	E/UNI	r						PRICE		RUNIT		TYPE	CON
LI SOYBEAN SEED	0.0		0.0	0.0		90.00	0.0		0.0						S CODE		-	
12 NITROGEN	0.0	0.0	0.0	0.0	0.0	50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.170			198.	3.	0.
3 CUSTOM COMBINE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00		0.0	9.700		7.	305.	3.	ŏ.
14 CUSTON HAULIN		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.00		0.0	0.100			306.	3.	ŏ.
5 FERBICIDE	0.0	0.0		0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	7.250			250.	3.	ō.
MACHINERY REQUIR	EM ENTS					TIME	OVER						xxxxx	xxxxx	POWER		TYPE	CON
B CHISEL	0.0	0.0	- 1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	UNIT	CODE 42.	4.	0.
9 OFFSET DISK	0.0	0.0	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	37.	4.	0.
O SPRINGTOOTH	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	55.	4.	0.
I LISTER	. 0.0	0.0	0.0	1.00		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.		4.	0.
42 ROD WEEDER	0.0	0.0	0.0	0.0	1.00		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	59.	4.	0.
43 CULTIBEDDER PI		0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	67.	4.	٥.
4 FIELD CULTIVA	FOR 0.0	0.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	46.	4.	0.
											• ,							
9 ACIN IRRIG WA	TER 0.0	0.C	0.0	0.0	6.00	3 . 60	7.20	7.20	0.0	0.0	0.0	0.0						
PANHANI	DLE ENER	SY BUDGE	ETS											INERY C			1	
4 €													EQUI	PMENT C	OMPL'EM	ENT	1	
														-				
***NO NAME CHANGI	ES HAVE I	BEEN STO	DRED WI	TH TH	IS BUDG	ET ***												
*** NG COMPLEMENT.	CHANGES	HAVE B	EEN STO	RED W	ITH THE	S BUDG	:FT+++											
													·					
CATEGORY	UNII			MARY I	OF RECE Mar	IPTS /	ND EXP	ENSES JUN		UL	AUG	SEP	OCT	NOV	DEC		т	OTAL
OTAL RECEIPTS	ACR			0.0	0. O	0.0	0.0	0.0			0.0	0.0	147.60	0.0	0.0			7.60
OTAL EXPENSES	ACR			0.0	1.00	1.41	5.28				6.00	0.0	14.20	0.0	0.0			8.36
ETURNS TO LAND,	LABOR,	CAP IT AL	, MACH	INERY.	OVERHE	AD, R	ISK, AN	D MANA	GEHEN	T	••••							9.24
ANNUAL CAPITAL	001	. 0	•0 (.0	0.58	0.71	2.20	11.2	26 1	.68	1.00	0.0	0.0	0.0	0.0		 1	7.42
			REQUI			ONTH												
ACPINERY LABOR	HR.			0.0	0.41	0.55	0.11	0.4	.7 0	. 29	0.0	0.0	0.0	0.0	0.0			1.83
IRRIGATION LABOR	HR.			.0	0.0	0.0	0.31	0. 1			0.37	0.0	0.0	0.0	0.0			1.25
OT AL LABOR	HR.	0.	.0 0	0.0	0.41	0.55	0.43	0.6	6 0		0.37	0.0	0.0	0.0	0.0			3.08
IRR IGATION WATER	INC		.0 (D. 0	0.0	0.0	6.00	3.6		.20	7.20	0.0	0.0	0.0	0.0			4.00
TREATION MALER	146										1.20							
MACHINE	CODE	DEPR		IXED .	AND:VAR TAX		COSTS		OUR PAIR	FUE	L	LUB.	VARI.	TAL ABLE	INT.	F4	/TIME	
RACTOR(4)	4	1.05		06	0.16		1.27		72	1.4		0.22	2.		1.06		1.00	
HISEL	42	0.52		.02	0.04		0.61		14	0.0		0.0	ō.	14	0.39		0.21	
FFSET DISK	37	1.66		07	0.21		1.94		43	0.0		0.0	0.4		1.24		0.13	
PRINGTOOTH	55	0.46	ō.	02	0.06		0.53		33	0.0		0.0	0.	33	0.34		0.07	
ISTER	48	1.19	0.	.05	0.15		1.40		46	0.0		0.0	0.0		0.90		0.26	
ROD WEEDER	59	0.80		.04	0.10		0.93	0.	21	0. 0		0.0	0.	21	0.60		0.09	
ULTIBEDDER PLNT	67	1.24	0.	05	0.13)	1.42	0.	.77	0.0		0.0	0.	7.7	0.82		0.15	
TELD CULTIVATOR	46	0.40	0.	.03	0.07	•	0.70	0.	25	0.0		0.0	0.		0.45		0.24	
	ITEM		TIMES !	AROP	MACHINE		016.60	a	FIXED	COSTE								
OFERATION	NO.						R PER				15							
HISEL	4,42	MAR	1.00	.254	0.210		.59		0.7	5								
FFSET DISK	4,37			157	0.129		40		0.7									
FFSET DISK	4.37	APR :		0.157	0.129		40		0.7									
PR INGTOOTH	4, 55	APR	1.00 0	.082	0.067		20		0.2									
LISTER	4,48	APR 1	1.00 - 0	3.310	0.257		. 81		1.2									
ROD WEEDER	4,59	HAY :	1.00 0	1.114	0.094		.27		0.3									
CULTIBEDDER PLNT	4,67	JUN	1.00 (184	0.152). 52		0.7									
FIELD CULTIVATOR	4,46			288	0.238		70		0.8	9								
IELD CULTIVATOR	4,46	JUL	يـ 1.00	288.	0.238		70		_0_8									
T GTAL -				.833	1.515	•	. 60		6.6	1			•					

TABLE LI

REDUCED TILLAGE CORN ON SANDY LOAM SOIL UNDER CIRCULAR SPRINKLER IRRIGATION

CATEGORY	UNITS		QUANTITY	
PRODUCTION:		· · · · · · · · · · · · · · · · · · ·		<u> </u>
CCRN	BU.	1.380	135.000	186.30
TOTAL RECEIPTS				186.30
PERATING INPUTS:	, , , , , , , , , , , , , , , , , , ,			
+ ERBICIDE	LBS.	2.400	1.500 20.000	3.60
CCRN SEED	LBS.	0.520	20.000	10.40
NITROGEN	LBS.	0.300	100.000	30.00
PFOSPHATE	LBS.	0.250	50.000 1.000	12.50
INSECTICIDE	ACRE	8.000	1.000	8. 00
	PT.	4.780	1.000 1.000 100.000	4.78
	LBS.	0.140	100.000	14.00
CUSTOM COMBINE	BU.	0.200	135.000 135.000	27.00
CUSTOM HAULING Tractor fuel cost	BU.	0.100	135.000	13.50
TRACTOR FUEL COST	ACRE			2.83
	ACRE			1.37
	ACRE			0.42
ECUIP REPAIR COST	ACRE ACRE			0.57
IRRIG FUEL COST				8. 13
	ACRE			1.63
	ACRE			10.25
OTAL OPERATING COST				1 48. 98
RETURNS TO LAND, LABOR, CAPITAL, MACHINERY, OVERHEAD, RISK, AND MANAGEMENT				37.32
CAPITAL COST:				
ANNUAL OPERATING CAPITAL		0.100	44.616	4.46
TRACTOR INVESTMENT		0.100	20.139	2.01
ECUIPMENT INVESTMENT		0.100	9.143	0. 91
TOTAL INTEREST CHARGE				7.39
RETURNS TO LAND, LABOR, MACHINERY, OVERHEAD, RISK AND MANAGEMENT		•		29.93
DWNERSHIP COST: (DEPRECIATION,				
TAXES, INSURANCE)				
TRACTOR	DOL.			2.41
ECUIPMENT	DOL.			1.45
IRRIGATION SYSTEM	DOL.			33.06
TOTAL GWNERSHIP COST				36. 91
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				6. 99
ABOR COST:				
	HR.	3.000	2.306 1.248	6. 92
	HR.	3.000	1.248	3.74
TOTAL LABOR COST				10.66
RETURNS TO LAND, OVERHEAD, RISK AND MANAGEMENT				-17.65

PANHANDLE ENERGY BUDGETS
FIRST HERBICIDE AATREX SECOND HERBICIDE PARAQUAT

ENTERPRISE 72 AREA AND COUNTY 10 DETAIL 00 IRIG. LEVEL 6 LAND CLASS 8 GRAZING 2 MACH. COMP. 1 IRIG. SYSTEM 4 PRICE VECT 1 INDIV. NUMBER 0 ANNUAL CAPITAL MONTH: 10 DATE PRINTED: 03/05/75

TABLE LI (Continued)

LINE PRODUCTION		JAN	FE B	3 MAI	APR	5 MAY NUMB	JUN ER OF 1	7 JUL UNITS	AU G	9 S EP	10 0CT	11 NOV	12 DEC	PRICE	NE IGH	-15 T UNIT CODE	16 ITEM CODE	17 TYPE	LB	
1 CORN	1.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.00	0.0	0.0	1.380	0.0	2.	72.	2.	٥.	
OPERATING INPUTS						RAT	TE/UNI	T	•					PRICE		R UNIT		TYPE	CONT	
11 HERBICIDE 12 CORN SEED 13 AITROGEN 14 PHOSPHATE 15 INSECTICIDE 16 HERBICIDE 17 AITROGEN	^	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0	100.0 50.0 0.0 0.0	0.0 0.0 0.0 0.50 1.00	0.0	0.0 0.0 0.0 0.0 0.50 0.0		0.0	0.0	0.0 0.0 0.0 0.0 0.0	0.0	2.400 0.520 0.300 0.250 8.000 4.780 0.140	0.0 0.0 0.0 0.0	12. 12. 12. 12. 7. 13.	250. 172. 211. 214. 240. 250. 211.	3. 3. 3. 3.	0. 0. 0. 0.	
18 CUSTON COMBINE		0.0	0.0			0.0	0.0	0.0 0.0	0.0		135.00 135.00	0.0	0.0	0.200 0.100	0.0		305. 306.	3. 3.	0. 0.	
MACHINERY REQUIRE	MEN	ΓS					TIME	S OVER						XXXXX	xxxxx	POWER		TYPE	CONT	
38 STALK SHREDDER 39 OFFSET DISK 40 SPRAYER 41 DRY FERT SPREA 42 CULTIBEDDER PL 43 SPRAYER 44 ANNYDROUS APPL 45 FIELD CULTIVAT	D NT	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0 0.0 0 1.0 0 0.0 0 0.0	0.0	0.0 0.0 0.0 0.0 0.0 1.00	0.0 0.0 0.0 0.0 0.0 0.0 1.00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	1.00 1.00 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	4. 4. 2. 4. 2. 4.	CDGE 81. 37. 74. 71. 67. 74. 75.	4. 4. 4. 4. 4. 4.	0.	
49 ACIN IRRIG WAT	ER	0.0	0.0	0.0	4.0	. 0.0	7.20	7.20	5.60	0.0	0.0	0.0	0.0							
PANHANI First 1					COND H	ERBICID!	E PARAG	QUAT							NERY C			l l		
CATEGORY TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND,	LABO	UNIT ACRE ACRE		JAN 0.0 0.0 L, MAG	FEB 0.0 0.0 Chinery	MAR 0.0 4.20 OVERH	APR 0.0 57.04 EAD, R	MAY 0.0 9.38 ISK, AN	JUN 0.0 7.4 D MANA	6 8 17	.0 0	.0G .0 .67	SEP 0.0 0.0	OCT 186.30 40.50	NDV 0.0 0.94	0.0 0.0		18	OTAL 6.30 8.98 7.32	
ANNUAL CAPITAL		DCL.		0.0	0.0	2.45	28.52	3.91	2.4	9 4	45 1	.94	0.0	0.0	0.86	0.0		4	4.62	
MACHINERY LABOR	2000	HR.	LAB			ITS BY		0.34	^ ^) . 0	0.0	0.0	0.37	0.0			2.31	
IRRIGATION LABOR TCTAL LABOR		HR.		0.0 0.0 0.0	0.0 0.0	0.36 0.0 0.36	0.30 0.21 0.50	0.36 0.36	0.3	7 0	.37 (.29	0.0	0.0	0.0	0.0		:	1.25 3.55	
IRR IGATION WATER		INCH		0.0	0.0	0.0	4.00	0.0	7.2	0 7	.20	.60	0.0	0.0	0.0	0.0		2	4.00	
MACFINE TRACTOR(2) TRACTOR(4) STALK SHREDDER OFFSET DISK SPRAYER DRY FERT SPREAD CULTIBEDDER PLNT SPRAYER	COD 2 4 81 37 74 71 67		DEPR 0.73 1.05 0.59 1.66 0.40 0.68 1.24		NSUR - 0.04 0.06 0.02 0.07 0.02 0.03 0.05	0.1 0.0 0.2 0.0 0.0	101/ 6 6 6 1 5 8 3	AL FIXE 0.88 1.27 0.68 1.94 0.47 0.80 1.42 0.47	D REP 0. 0. 0. 0. 0.	AIR 50 72 33 43 11 29 77	FUEL 1.04 0.0 0.0 0.0 0.0 0.0		LUB. 0.16 0.22 0.0 0.0 0.0 0.0	TOT VARIA 1.6 2.4 0.3 0.4 0.1 0.2 0.7	MBLE 19 14 13 13 11 12 17	INT. 0.74 1.06 0.39 1.24 0.31 0.51 0.82 0.31	1000	T IME .CO .00 .18 .13 .30 .09		
ANHYDROUS APPLIC FIELD CULTIVATOR	73 46	r EM	0.56	· · · · · · · · · · · · · · · · · · ·	0.03 0.03 LABOR	0.0	7	0.66 0.70	0. 0. B., F	25	COSTS		0.0	0.3 0.2		0.43		.26		
OPERATION	N	0.	DATE	OVER	HOURS	HOURS	REPA	IR PER	ACRE	PER A	ACRE									
STALK SHREDDER OFFSET DISK SPRAYER DRY FERT SPREAD CULTIBEDDER PLNT SPRAYER ANHYDROUS APPLIC FIELD CULTIVATOR	4 2 4	637 74 71 67 74 73	NOV NOV MAR APR APR MAY JUN	1.00 1.00 1.00 1.00 1.00 1.00	0.214 0.157 0.365 0.112 0.184 0.365 0.310 0.268	0.302 0.093 0.152 0.302 0.257 0.238		0.53 0.40 0.60 0.28 0.52 0.60 0.78 0.70		0.6 0.7 0.3 0.7 0.7	74 17 36 13 17 14									
ANHYDROUS APPLIC	4,	.73	JUL	1.00	_0.310	0.257		Q. 78		-0-4										

TABLE LII

REDUCED TILLAGE CORN SILAGE AND RYE GRAZE DOUBLE CROP ON SANDY LOAM SOIL UNDER CIRCULAR SPRINKLER IRRIGATION

CATEGORY	UNITS	PRICE	QUANTITY	VALUE
PROCUCTION:				
CCRN SILAGE	TONS		20.000	
GRAZE-GUT	AUMS	10.000	4.100	
TOTAL RECEIPTS				151.00
DPERATING INPUTS:				
HERBICIDE	LBS.	2.400	1.500	3.60
NITROGEN	LBS.	0.300	100.000	30.00
	LBS.	0.250	50.000 20.000	12. 50
CORN SEED	LBS.	0.520	20.000	10.40
INSECTICIDE	ACRE	8.000	1.000 100.000 1.000	8.00
NITROGEN Rye Seed	LBS. BU.	0.140	100.000 1.000 80.000	14.00
NITROGEN	LBS.	0.160	80.000	11 20
	ACRE	0.140	80.000	1. 73
TRACT REPAIR COST	ACRE			0.84
TRACTOR LUBE COST	ACRE			0. 26
	ACRE			0.59
IRRIG FUEL COST	ACRE			11.52
IRRIG LUBE COST	ACRE			2. 31
IRRIG REPAIR COST	ACRE			16.20
CTAL CPERATING COST				128.11
RETURNS TO LAND, LABOR, CAPITAL, MACHINERY OVERHEAD, RISK, AND MANAGEMENT		\$ 10 m at 10 m		22.89
CAPITAL COST: ANNUAL OPERATING CAPITAL		0 100	22 071	3. 21
TRACTOR INVESTMENT		0.100	32.071 12.329	1. 23
EQUIPMENT INVESTMENT		0-100	7.076	0.71
IRRIGATION SYSTEM INVESTMENT		0.100	158.712	15. 87
TOTAL INTEREST CHARGE			12.329 7.076 158.712	21.02
RETURNS TO LAND, LABOR, MACHINERY, OVERHEAD, RISK AND MANAGEMENT				1.87
DWNERSHIP COST: (DEPRECIATION,				
TAXES, INSURANCE)				
TRACTOR	DOL.			1-47
	DOL.			1. 12
IRRIGATION SYSTEM	DOL.			24.40
TOTAL CWNERSHIP COST				26. 99
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				- 25. 12
ABCP COST:				
MACHINERY LABOR	HR.	3.000	1.386	4. 10
	HR.	3.000	1.768	5.30
TOTAL LABOR COST	<u> </u>			9.46
RETURNS TO LAND, OVERHEAD, RISK AND MANAGEMENT			-	-34.59

PANHANCLE ENERGY EUDGETS HERBICIDE AATREX

ENTERPRISE 86 AREA AND COUNTY 10 DETAIL 00 IRIG. LEVEL 6 LAND CLASS 8 GRAZING 5 MACH. COMP. _1 IRIG. SYSTEM 4 PRICE VECT 1 INDIV. NUMBER _0 ANNUAL CAPITAL MONTH: 9 DATE PRINTED: 03/05/75

TABLE LII (Continued)

	1 Jan	FEB	HAR.	APR	5- MAY	J UN	7 JUL	8 AUG	9 SEP	10 DCT	11 NOV	12 DEC	13 PRICE	14 WE IGHT			17 TYPE	18 CONT
LINE PRODUCTION					NUMBE		MITS								CODE	CODE		
1 CORN SILAGE 2 GRAZE-OUT	0.0 0.25	0.0 0.25	0.0 0.75	0.0	0.0	0.0	0.0	0.0	20.00	0.0 0.60	0.0	0.0 0.75	5.500 10.000	0.0	3. 10.	161. 75.	2.	0. 0.
OPERATING INPUTS					RAT	E/UNI1	г			2.			PRICE	NUMBER	UNIT		TYPE	CONT
LI HERBICIDE	0.0	0.0	0.0	0.0	1. 50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.400	0.0		250.	з.	0.
L2 NITROGEN	0.0	0.0	0.0		100.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.300	0.0		211.	3.	٥.
13 PHOSPHATE	0.0		0.0	0.0	50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.250	0.0		214.	3.	0.
L4 CORN SEED L5 INSECTICIDE	0.0	0.0	0.0	0.0	20.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.520 8.000	0.0 0.0		172. 240.	3.	٥.
16 NITROGEN	0.0	0.0	0.0	0.0	0.0		00.00	0.0	0.0	0.0	0.0	0.0	0.140	0.0		211.	3.	o.
T RYE SEED		0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	5.000	0-0	2.	175.	3,	ō.
L8 NITROGEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.00	0.0	0.0	0.0	0.140	0.0	12.	211.	3.	٥.
MACHINERY REQUIRE	MENTS					TIMES	OVER						XXXXX	XXXXX	POWEF. UNIT		TYPE	CONT
BO DRY FERT SPREA		0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	71.	4.	0.
9 CULTIBEDDER PL		0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	67.	4.	0.
40 SPRAYER 41 ANHYDROUS APPI	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.	74.	4.	٥.
41 ANHYDROUS APPL 42 CULTIBEDDER AY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.	73. 95.	4.	0.
43 DRILL WO/FERT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	7:	61.	4:	0.
49 ACIN IRRIG WAT		0.0	3.00	3.00	3, 00	3-60	7.20	7-20	3.00	0.0	4.00	0.0						
*			-							•••								
PANHANE	DLE ENERG LDE AATRE		ETS											NERY CO			1 1	
NO NAME CHANGE ***NO COMPLEMENT							ET					*. *						
***NO COMPLEMENT	CHANGES.	HAVE BE	EN STO	MARY (TH THIS	S BUDG	ND EXP	JUN	ı Ji	UL.	AUG	SEP	ост	NOV	DEC	· 		OTAL
CATEGORY	CHANGES UNIT ACR E	MONTH	EN STO	MARY (TH THIS	IPTS A	ND EXP	JUL 0.0	٥.	.0	0.0 1	10.00	6.00	6.00	7.50		15	1.00
CATEGORY OTAL RECEIPTS OTAL EXPENSES	CHANGES UNIT ACRE	MONTH	LY SUM	MARY (F RECE MAR 7.50 2.65	IPTS A APR 9.00 2.65	ND EXPE MAY 0.0 60.55	JUN 0.0 7.1	0 . 8 25	.0 .14	0.0 1			NGV 6.00 3.53			15 12	1.00 8.11
CATEGORY COTAL RECEIPTS FOTAL EXPENSES	CHANGES UNIT ACRE	MONTH	LY SUM	MARY (F RECE MAR 7.50 2.65	IPTS A APR 9.00 2.65	ND EXPE MAY 0.0 60.55	JUN 0.0 7.1	0 . 8 25	.0 .14	0.0 1	10.00	6.00	6.00	7.50		15 12	1.00
CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND,	CHANGES UNIT ACRE	MONTH	EN STO	MARY (F RECE MAR 7.50 2.65	IPTS A APR 9.00 2.65	ND EXPE MAY 0.0 60.55	JUN 0.0 7.1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.0 .14 T	0.0 1	10.00	6.00	6.00	7.50		15 12 2	1.00 8.11
***NO COMPLEMENT	CHANGES UNIT ACRE ACRE LABOR, G	HAVE BE HONTH JA 2. O. APIT AL,	EN STO	MARY (EB 2.50).0 (NERY,	F RECE MAR 7.50 2.65 OVERHE	IPTS A APR 9.00 2.65 AD, RI	MAY 0.0 60.55	0.0 7.1 MANA	0 0. 8 25. NGEMENT	.0 .14 T	0.0 1 6.36	10.00 20.05	6.00 0.0	6.00 3.53	7.50		15 12: 2	1.00 8.11 2.89
CATEGORY COTAL EXPENSES RETURNS TO LAND, NNUAL CAPITAL ACCHINERY LABOR	UNIT ACRE ACRE LABOR, C	HAVE BE HONTH JA 2. 0. APIT AL	EN STO	MARY (EB 2.50).0 (NERY,	TH THIS F RECE HAR 7.50 2.65 OVERHE	IPTS APR 9.00 2.65 AD, RI	MAY 0.0 60.55 SK, ANG	0.0 7.1 7.1 MANA	0 0. 18 25. IGEMENT	.0 .14 T	0.0 1 6.36	0.00 0.05	0.0	6.00 3.53 2.94	7.50 0.0		15 12 2 3	1.00 8.11 2.89
CATEGORY CATEGORY COTAL RECEIPTS FOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR FOR IGATION LABOR	UNIT ACRE ACRE LABOR, C	MONTH JA 2. 0. APIT AL: U.	LY SUP AN F 50 2 0 MACHI	MARY (EB 2.50 0.0 (NERY,	TH THIS OF RECE HAR 7.50 2.65 OVERHE 1.32 TS BY MC	IPTS A APR 9.00 2.65 AD, RI 1.10	0.0 60.55 SK, ANC	JUN 0.0 7.1 MANA 1.7	0 0.8 25.4GEMENT	.0 .14 .19 .31	0.0 1 6.36 3	0.0	0.0	2.94 0.0	0.0		15 12 2 3	1.00 8.11 2.89 2.07
CATEGORY COTAL RECEIPTS OTAL EXPENSES LETURNS TO LAND, INNUAL CAPITAL MACHINERY LABOR RRIGATION LABOR OTAL LABOR	UNIT ACRE ACRE LABOR, C	HAVE BE HONTH JA 20 O O O O O O O O O O O O O O O O O O	HLY SUMAN F. 50 2 2 3 0 C C C C C C C C C C C C C C C C C C	MARY CEB EB 2.50 .0 INERY, 0.0	TH THIS OF RECE MAR 7.50 2.65 OVERHE 1.32 IS BY MC 0.0 0.16	IPTS A APR 9.00 2.65 AD, RI 1.10 DNTH 0.0 0.16	0.0 60.55 SK, ANG 20.18	1.7 0.0 7.1 0.0 0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.0 .14 T .19	0.0 1 6.36 1 0.53	0.00 0.05	0.0	2.94 0.0 0.21	0.0		15 12 2	1.00 8.11 2.89 2.07 1.39 1.77
CATEGORY OTAL RECEIPTS OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND, INNUAL CAPITAL MACHINERY LABOR OTAL LABOR OTAL LABOR IRRIGATION MATER	CHANGES UNIT ACRE ACRE LABOR, C DOL. HR. HR. HR.	HAVE BE MONTH JA 2. O. APIT AL ;	EEN STC	MARY (FEB 2.50).0 (NERY, D.0).0 (REMENT).0 (TH THI: OF RECE HAR 7.50 2.65 OVERHE 1.32 IS BY MO 0.16 0.16 3.00	IPTS A APR 9.00 2.65 AD. RI 1.10 ONTH 0.0 0.16 0.16 3.00 [ABLE	0.0 60.55 SK, ANC 20.18 0.66 0.16 0.82	JUN 0.0 7.1 D MANA 1.7 0.0 0.1 0.1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.0 .14 T	0.0 1 6.36 3 0.53 0.0 0.37 0.37 7.20	0.0 0.0 0.41 0.16 0.57	0.0 0.0 0.0 0.0 0.0	0.0 0.21 0.21	7.50 0.0 0.0 0.0 0.0 0.0		3.	1.00 8.11 2.89 2.07 1.39 1.77 3.15
CATEGORY COTAL EXPENSES COTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR (OTAL LABOR OTAL LABOR COTAL LABOR COTAL LABOR RER IGATION LABOR COTAL LABOR RER IGATION WATER RACHINE	UNIT ACRE LABOR. C DOL. HR. HR. INCH	HAVE BE MONTH JA 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HLY SUMAN F. 50 C. 50 C. REQUI	MARY (EB WARY (EB S. 50).0 (NERY, D. 0).0 (NERY, D	ITH THIS DF RECE MAR 7.50 2.65 OVERHE 1.32 IS BY MC 0.16 0.16 3.00 AND VARI TAX	IPTS A APR 9.00 2.65 AD. RI 1.10 ONTH 0.0 0.16 0.16 3.00 [ABLE	0.0 60.55 SK, AMC 20.18 0.66 0.16 0.82	3.6 JUN 0.0 7.1 0.0 0.1 3.6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.0 .14 T .19 .31 .37 .68	0.0 1 6.36 0.53 0.0 0.37 0.37	0.0 0.0 0.41 0.16 0.57	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.21 0.21	7.50 0.0 0.0 0.0 0.0 0.0		15 12 2 3 3	1.00 8.11 2.89 2.07 1.39 1.77 3.15
CATEGORY OTAL RECEIPTS OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND, INNUAL CAPITAL MACHINERY LABOR OTAL LABOR IRR IGATION LABOR IRR IGATION HATER PACHINE (RACTOR(2)	UNITARES UNITARE LABOR. C DOL. HR. HR. HR.	HAVE BE HIGHTH JJ 20 APITAL 00 APITAL 00 APITAL 10 APITA	LEN STO	MARY CEB 22.50 O INERY.	DF RECE MAR 7-50 2-65 OVERHE. 1.32 IS BY MC 0-16 0-16 3-00 WARI TAX 0-11	IPTS A APR 9.00 2.65 AD. RI 1.10 ONTH 0.0 0.16 0.16 3.00 [ABLE	0.0 60.55 SK, ANC 20.18 0.66 0.16 0.82 3.00	3.60 PER HOD	0 0 0 8 25 MGE MENT 79 4 0 0 9 0 0 9 0 0 0 0 0 0 0 0 0 0 0 0	.0 .14 T .19 .31 .37 .68	0.0 1 6.36 0.53 0.0 0.37 0.37 7.20	0.0 0.0 0.41 0.16 0.57 3.00	0.0 0.0 0.0 0.0 0.0 0.0 VARIA	6.00 3.53 2.94 0.0 0.21 0.21 4.00 AL BLE	7.50 0.0 0.0 0.0 0.0 0.0 0.0	1	3- 3- 7TIME	1.00 8.11 2.89 2.07 1.39 1.77 3.15
CATEGORY COTAL EXPENSES OTAL EXPENSES NETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR OTAL LABOR ERRIGATION WATER RACHINE RACTOR(2) RACTOR(2)	UNITARES UNITARE LABOR. C DOL. HR. HR. HR.	MAVE BE MONTH JJ 2- 0- APITAL: 0- LABOR 0- 0- MACHI DEPR 0-73	EEN STO	MARY (EB WARY (EB S. 50).0 (IN ER Y)	F RECE HAR 7.50 2.65 OVERHE. 1.32 IS BY MC 0.16 0.16 3.00 IND VAR: TAX 0.11	IPTS A APR 9.00 2.65 AD. RI 1.10 ONTH 0.0 0.16 0.16 3.00 [ABLE	0.0 60.55 (SK, ANC 20.18 0.66 0.16 0.82 3.00 COSTS (L. FIXEL 0.88 1.27	3.6 D HANA 1.7 0.0 0.1 0.1 3.6	0 0.8 25. NGE MENT 79 4. 9 0. 9 0. 9 0. WUR AIR 50 72	.0 .14 T .19 .31 .37 .68	0.0 1 6.36 0.53 0.0 0.37 0.37 7.20	0.0 0.0 0.41 0.16 0.57	0.0 0.0 0.0 0.0 0.0 0.0 VARIA 1.6	0.0 0.21 0.21 4.00 AL BLE 9	7.50 0.0 0.0 0.0 0.0 0.0 0.0	1	15 12 2 3 3	1.00 8.11 2.89 2.07 1.39 1.77 3.15
CATEGORY CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TO LAND, INNUAL CAPITAL MACHINERY LABOR OTAL LABOR RRIGATION LABOR RRIGATION HATER RACTOR(2) RACTOR(4) RRY FERT SPREAD	CHANGES UNIT ACRE ACRE LABOR, C DOL. HR. HR. INCH CODE 2 4 71 67	MAVE BE MONTH JA 2. 0. APIT AL. 0. LABOR 0. 0. 0. MACHI DEPR 0.73 1.05 0.68 1.24	HLY SUMAN F.50 2.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MARY (6-E8 W) (10 M) (1	TH THIS F RECE HAR 7.50 2.65 OVERHE 1.32 S BY MC 0.0 0.16 3.00 AND VARI TAX 0.11 0.16 0.08 0.03	IPTS A APR 9.00 2.65 AD. RI 1.10 ONTH 0.0 0.16 0.16 3.00 [ABLE	0.0 60.55 SK, AND 20.18 0.66 0.16 0.82 3.00 COSTS IL FIXEL 0.88 1.27 0.80 1.42	3.6 PER HOD O.0	0 0 0 8 25 MGE MENT 79 4 0 0 9 0 0 9 0 0 0 0 0 0 0 0 0 0 0 0	.19 .19 .31 .37 .68 .20	0.0 1 6.36 1 0.53 0.0 0.37 0.37 7.20	0.0 0.0 0.41 0.16 0.57 3.00 LUB. 0.16 0.22	0.0 0.0 0.0 0.0 0.0 0.0 VARIA 1.6 2.4 0.2	0.0 0.21 0.21 4.00 AL BLE 9	7.50 0.0 0.0 0.0 0.0 0.0 0.0	1	35 12 2 3. 7 T I ME 1 - 00	1.00 8.11 2.89 2.07 1.39 1.77 3.15
CATEGORY COTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR TOTAL LABOR UT AL LABOR RR IGATION LABOR TOTAL LABOR MACHINE (RACTOR(2) RACTOR(4) RACTOR(4) RY FERT SPREAD ULITIBEDDER PLNT PRAYER	UNITARY OF THE PROPERTY OF THE	MAVE BE MONTH AL 2. APIT AL LABOR 0. 0. MACH1 DEPR 0.73 1.05 0.68 1.24 0.40	AN F 500 C C C REQUIRED CO. C C C C C C C C C C C C C C C C C C	MARY (1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	TH THI: F RECE MAR 7-50 2-65 OVER HE, 1-32 IS BY MC 0-16 0-16 3-00 ND VAR: TAX O-11 0-16 0-08 0-08 0-09 0-09 0-09 0-09	IPTS A APR 9.00 2.65 AD. RI 1.10 ONTH 0.0 0.16 0.16 3.00 [ABLE	O.66 O.16 O.82 3.00 COSTS: L. FIXEL D.88 1.27 O.80 1.42 O.47	3.6 0.0 7.1 0.0 0.1 3.6 PER HOD REP 0.0 0.0	0 0.8 25. IGE MENT 79 4. 0 0.9 0. 9 0. 9 0. 10 7. UR PAIR 72 29 77 11	.19 .19 .31 .37 .68 .20	0.0 1 6.36 1 0.53 0.0 0.37 0.37 7.20	0.00 0.00 0.41 0.16 0.57 3.00 LUB. 0.16 0.22 0.0	0.0 0.0 0.0 0.0 0.0 0.0 1 CT VARIA 1.6 2.4 4 0.2 0.7	6.00 3.53 2.94 0.0 0.21 0.21 4.00 AL BLE 9	7.50 0.0 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.51 0.82	1	33 7TIME 1.00 1.00 0.05 0.15	1.00 8.11 2.89 2.07 1.39 1.77 3.15
CATEGORY CTAL RECEIPTS COTAL EXPENSES CETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR COTAL LABOR RR IGATION LABOR MACHINE RACTOR(2) RACTOR(2) RACTOR(2) RY FERT SPREAD LYTIEGODER PLNT PRAYER PRAYER MAYDROUS APPLIC	CHANGES UNIT ACRE ACRE LABOR. C DOL. HR. HR. INCH CODE 2 4 71 74 77 74 73	MAVE BE MONTH 2. 0. APITAL; 0. LABOR 0. 0. 0. MACHI 0.73 1.05 0.68 1.24 0.56	EEN STC	ORED WINARY CEEB 2.50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TAX 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	IPTS A APR 9.00 2.65 AD. RI 1.10 ONTH 0.0 0.16 0.16 3.00 [ABLE	0.066 0.16 0.66 0.16 0.82 3.00 COSTS (L. FIXEI 0.88 1.27 0.88 1.27 0.80	1.7 0.0 0.1 0.1 0.1 0.1	0 0.8 25. GEMENT 79 4. 9 0. 9 0. 9 0. WR PAIR 50 72 229 77 11 37	.19 .19 .31 .37 .68 .20 FUE 1.00 1.44 0.00 0.00	0.0 1 6.36 1 0.53 0.0 0.37 0.37 7.20	0.00 0.00 0.41 0.16 0.57 3.00 LUB. 0.16 0.22 0.0	0.0 0.0 0.0 0.0 0.0 0.0 T CT VARIA 1.66 2.4 0.2 2.0.7 0.1	6.00 3.53 2.94 0.0 0.21 0.21 4.00 AL BLE 9	7.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0	33 7TIME 1.00 1.00 0.09 0.15 0.30 0.26	1.00 8.11 2.89 2.07 1.39 1.77 3.15
CATEGORY COTAL EXPENSES COTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR COTAL LABOR LAR IGATION LABOR COTAL LABOR RACTOR(2) RACTOR(4) RY FERT SPREAD LULTIBEODER APPLIC LULTIBEODER APPLIC	UNITACRE LABOR, C DOL. HR. HR. 1NCH CODE 2 4 71 67 73 95	MAVE BE MONTH JJ 2. APITAL, 0. LABOR 0. 0. MACHI DEPR 0.73 1.05 0.68 1.24 0.40 0.56 0.90	LY SUPAN F SO 2 SO	MARY (1988) 1988 1988 1988 1988 1988 1988 1988	TH THIS F RECE HAR 7.50 2.65 OVERHE 1.32 IS BY MC 0.16 0.16 0.16 0.16 0.10 0.10 0.10 0.10	IPTS A APR 9.00 2.65 AD. RI 1.10 ONTH 0.0 0.16 0.16 3.00 [ABLE	O.00 EXPL MAY O.00 55 SK, ANC 20.18 0.66 0.16 0.82 3.00 COSTS IL FIXED 0.88 1.27 0.80 1.42 0.47	3.6 PER HOD REP 0.0 0.1 0.1	0 0.8 25. GEMENT 79 4. 9 0. 9 0. 9 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10 0. 10	.14 T .19 .31 .37 .68 .20 FUE 1.00 0.00 0.00	0.0 1 6.36 1 0.53 0.0 0.37 0.37 7.20	0.00 0.00 0.41 0.16 0.57 3.00 LUB. 0.16 0.22 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 TCT VARIA 1.6 2.4 4 0.2 0.7 0.1	6.00 3.53 2.94 0.0 0.21 0.21 4.00 AL BLE 9 4	7.50 0.0 0.0 0.0 0.0 0.0 0.0 0.74 1.06 0.51 0.82 0.31 0.43	0	3: 7TIME 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	1.00 8.11 2.89 2.07 1.39 1.77 3.15
CATEGORY TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR TOTAL LABOR TOTAL LABOR LAR IGATION HATER MACHINE RACTOR(2) TRACTOR(4) DRY FERT SPREAD LULTIBEDDER PHNT SPRAYER NAMPOROUS APPLIC LULTIBEDDER AYHO LULTIBEDER A	CHANGES UNIT ACRE ACRE LABOR. C DOL. HR. HR. 1NCH CODE 2 4 71 74 77 74 73	MAVE BE MONTH 2. 0. APITAL; 0. LABOR 0. 0. 0. MACHI 0.73 1.05 0.68 1.24 0.56	LY SUPAN F SO 2 SO	ORED WINARY CEEB 2.50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TAX 0-16 0-16 0-16 0-16 0-16 0-16 0-16 0-16	IPTS A APR 9.00 2.65 AD. RI 1.10 ONTH 0.0 0.16 0.16 3.00 [ABLE	0.066 0.16 0.66 0.16 0.82 3.00 COSTS (L. FIXEI 0.88 1.27 0.88 1.27 0.80	3.6 PER HOD REP 0.0 0.1 0.1	0 0.8 25. GEMENT 79 4. 9 0. 9 0. 9 0. WR PAIR 50 72 229 77 11 37	.19 .19 .31 .37 .68 .20 FUE 1.00 1.44 0.00 0.00	0.0 1 6.36 1 0.53 0.0 0.37 0.37 7.20	0.00 0.00 0.41 0.16 0.57 3.00 LUB. 0.16 0.22 0.0	0.0 0.0 0.0 0.0 0.0 0.0 T CT VARIA 1.66 2.4 0.2 2.0.7 0.1	6.00 3.53 2.94 0.0 0.21 0.21 4.00 AL BLE 9 4	7.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0	33 7TIME 1.00 1.00 0.09 0.15 0.30 0.26	1.00 8.11 2.89 2.07 1.39 1.77 3.15
CATEGORY TOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR TOTAL LABOR TOTAL LABOR LAR IGATION HATER MACHINE RACTOR(2) TRACTOR(4) DRY FERT SPREAD LULTIBEDDER PHNT SPRAYER NAMPOROUS APPLIC LULTIBEDDER AYHO LULTIBEDER A	CHANGES UNITACRE AGRE LABOR, C DOL. HR. HR. HR. 1NCH CODE 2 4 71 67 73 95 61	HAVE BE HONTH JJ 2. APITAL, 0. LABOR 0. 0. 0. HACHI DEPR 0.73 1.05 0.68 1.24 0.40 0.50 0.90 1.65	EEN STC/ SUPPLY	RED MI MARY. MARY. 1.50 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	TH THIS F RECE HAR 7.50 2.65 OVERHE 1.32 IS BY MC 0.16 0.16 0.16 0.16 0.10 0.10 0.10 0.10	S BUDG IPTS / APR 9-00 2-65 / APR 1-10 DNTH 0-0 0-16 3-00 (ABLE TOTA	OCSTS IL FIXEI 0.47 0.47 0.82 0.18 0.66 0.16 0.82 0.88 0.47 0.68 0.47 0.69 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.65 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.47	JUN 0.00 7.11 D MANA 1.77 0.00 0.1 0.1 3.6 PER HOD REP 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0 0.8 25.8 GE MEN1 79 4.0 0.9 0.9 0.9 0.0 7.0 0.7 7.2 2.9 7.7 11 3.7 2.4 4.4 EI XED (CI XED (C	-0 -14 T T -19 -31 -37 -68 -20 FUE 1.00 -0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.0 1 6.36 1 0.53 0.0 0.37 0.37 7.20	0.00 0.00 0.41 0.16 0.57 3.00 LUB. 0.16 0.22 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 TCT VARIA 1.6 2.4 4 0.2 0.7 0.1	6.00 3.53 2.94 0.0 0.21 0.21 4.00 AL BLE 9 4	7.50 0.0 0.0 0.0 0.0 0.0 0.0 0.74 1.06 0.51 0.82 0.31 0.43	0	3: 7TIME 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	1.00 8.11 2.89 2.07 1.39 1.77 3.15
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CATEGORY COTAL RECEIPTS FOTAL EXPENSES RETURNS TO LAND, ANNUAL CAPITAL MACHINERY LABOR TOTAL LABOR LRR IGATION MATER MACHINE RACTION(2) RACTOR(4) RYFERT SPREAD CULTIBEDDER PUNT SPRAYER NAHOMORY CULTIBEDDER AYHD CULTIBEDDER AYHD CULTIBEDDER AYHD COPERATION COPERAT	UNIT UNIT WAR ACRE LABOR. C DOL. HR. HR. HR. INCH CODE 2 4 71 67 74 73 95 61 1 1 TEH NO. 4,71 4,67 2,74 4,73 4,95 4,95	MONTY A	EEN STC	MARY (E-EB X-50 NERY, O	TH THIS OF RECE MAR 7-50 2-65 OVERHE 1-32 IS BY MC 0-16 0-16 3-00 IND VAR: 0-11 0-01 0-01 0-01 1-0-01 4ACHINE HOURS 0-093 0-152 0-302	S BUDGE S B	O.66 O.16 O.82 O.60 O.66 O.82 O.60 O.66 O.66 O.66 O.66 O.66 O.66 O.66	JUN 0.00 7.11 D MANA 1.77 0.00 0.1 0.1 3.6 PER HOD REP 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.36 0.77 11 SED (0.36 0.77 11 SED (0.36 0.77 11 O.36 0.77 0.77	-0 -14 T -19 -19 -31 -37 -68 -20	0.0 1 6.36 1 0.53 0.0 0.37 0.37 7.20	0.00 0.00 0.41 0.16 0.57 3.00 LUB. 0.16 0.22 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 TCT VARIA 1.6 2.4 4 0.2 0.7 0.1	6.00 3.53 2.94 0.0 0.21 0.21 4.00 AL BLE 9 4	7.50 0.0 0.0 0.0 0.0 0.0 0.0 0.74 1.06 0.51 0.82 0.31 0.43	0	3: 7TIME 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	1.00 8.11 2.89 2.07 1.39 1.77 3.15

TABLE LIII

REDUCED TILLAGE WHEAT (CON. RED. CON.) TWO YEAR ROTATION
ON CLAY LOAM SOIL WITH SURFACE IRRIGATION

CATEGORY	UNITS			
PRCDUÉTION:	F			
WHEAT	LBS.	2.050	55.000	112.7
GRAZING	AUMS	10.000	1.000	10.00
WHEAT	8U •	2.050	58.000	118.90
GRAZING	AUMS	10.000	1.000 58.000 1.000	10.00
TOTAL RECEIPTS				251.65
OPERATING INPUTS:				
WHEAT SEED	BU.	5.000 0.140	1.000	5.00
NITROGEN	LBS.	0.140	100.000	14- 0
CUSTOM COMBINE	ACRE	9.800	1.000	9.80
CUSTOM HAULING	BU.	0.100	55.000	5. 5
HERBICIDE	LBS.	8.000		4. 0
HERBICIDE	LBS.	9.550		
WHEAT SEED	BU.	5.000		5. 0
NITROGEN	LBS.	0.140	100.000	14.0
CUSTOM COMBINE	ACRE	10.280		
CUSTOM HAULING	BU.	0.100	58.000	5. 8
TRACTOR FUEL COST	ACRE			3.2
TRACT REPAIR COST	ACRE			1.5
TRACTOR LUBE COST	ACRE			0.4
ECUIP REPAIR COST	ACRE			1.2
IRRIG FUEL COST	ACRE			7. 9
IRRIG LUBE COST	ACRE			2.1
IRRIG REPAIR COST	ACRE		•	8. 1
TOTAL OPERATING COST				102.9
CAPITAL CCST:				
ANNUAL OPERATING CAPITAL		0.100	48.383	4.8
TRACTOR INVESTMENT		0-100	23-057	2.31
EQUIPMENT INVESTMENT		0.100	17.908	1. 7
IRRIGATION SYSTEM INVESTMENT		0.100	112.540	11.2
TOTAL INTEREST CHARGE		i e e e e e e e e e e e e e e e e e e e		11.2
RETURNS TO LAND, LABOR, MACHINERY, OVERHEAD, RISK AND MANAGEMENT				120 6
OVERDEAUT KISK AND PARAGEDENT				12004
OWNERSHIP COST: (DEPRECIATION,				
TAXES, INSURANCE)	DOL.			2.7
TRACTOR	DOL.			2.6
ECUIPMENT IRRIGATION SYSTEM	DOL.			17. 7
TOTAL OWNERSHIP COST	UUL •			23.1
				23,1
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				105.3
MACHITHERY AARON	HR.	3.000	2.607	
MACHINERY LABOR		2 000	1.768	5. 30
IRRIGATION LABOR	HR.	3.000	1+1.00	
TOTAL LABOR COST	HR.	3.000	1.100	13.13
IRRIGATION LABOR TOTAL LABOR COST RETURNS TO LAND, OVERHEAD, RISK AND MANAGEMENT	HR •	3.000	1. 100	

PANHANDLE ENERGY BUDGETS CON IS YEAR 1: REDUCED YEAR 2
3 BU/AC. INCREASE WITH REDUCED TILLAGE
HERBICIDE 1 IS 2,4-D. HERBICIDE 2 IS PARAQUAT.
ENTERPRISE 16 AREA AND COUNTY 10 DETAIL 00 IRIG. LEVEL 5 LAND CLASS 1
GRAZING 3 MACH. COMP. 1 IRIG. SYSTEM 5 PRICE VECT 1 INDIV. NUMBER 0
ANNUAL CARITAL MONTH: 6
DATE PRINTED: 03/05/75

TABLE LIII (Continued)

LINE	1 JAN	2 FEB	3 MAR	4 APR	5 MAY	JUN	7 JUL	AUG	9 SEP	10 0CT	11 NOV	12 DEC	13 PRICE	14 WEIGHT	15 UNIT CODE		17 TYPE	18 CONT	
PRODUCT ION					NUMB	ER OF U	INITS												
1 WHEAT	0.0	0.0	0.0	0.0	0.0	55.00	0.0	0.0	0.0	0.0	0.0	0.0	2.050	0.0	12.	76.	2.	1.	
2 GRAZING	0.20	0.20	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.20	10.000	0.0	10.	89.	2.	1.	
3 WHEAT	0.0	0.0	0.0	0.0	0.0	58.00	0.0	0.0	0.0.	0.0	0.0	0.0	2.050	0.0	2.	76.	2.	2.	
4 GRAZING	0.20	0.20	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.20	10.000	0.0	10.	89.	2.	2.	
	* .			J															
OPERATING INPUTS				· .	· RA	TE/UNIT							PRICE	NUMBER			TTPE	COMI	
11 WHEAT SEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	5.000	0.0		176.	3.	1.	
12 NITROGEN	0.0	0.0	0.0	0.0	0.0	0.0		100.00	0.0	0.0	0.0	0.0	0.140	0.0		211.	3.	i.	
13 CUSTOM COMBINE	0.0		0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	9.800	0.0		305.	3.	i.	
14 CUSTON HAULING	0.0	0.0	0.0	0.0	0.0	55.00	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.0			3.	i.	
15 PERBICIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	8.000	0.0		250.	3.	ž.	
16 FERBICIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	9.550	0.0		250	3.	2.	
17 WHEAT SEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	5.000	0.0		176.	3.	ž.	
18 NITROGEN	0.0	0.0	0.0	0.0	0.0	0.0		100.00	0.0	0.0	0.0	0.0	0.140	0.0			3.	ž.	
19 CUSTOM COMBINE	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	10.280	0.0	7.	305.	3.	Ž.	
20 CUSTOM HAULING	0.0	0.0	0.0	0.0	0.0	58.00	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.0		306.	3.	2.	
MACHINERY REQUIREMEN	TC					TIMES	OVER						xxxx	XXXXX (POWER	MACH	TVDS	CONT	
THE PROPERTY OF THE PARTY OF TH						12/10/3							AAAAA	Anna I	UNIT			0.3	
38 CFFSET DISK	0.0	0.0	0.0	0.0	0.0	2.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	4.	37.	4.	ı.	٠
39 LAND PLANE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0. 0	0.0	0.0	4.	77.	4.	i.	
40 CULTIBEDDER AYHD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	4.	95.	4.	1.	
41 CULTIBEDDER TILL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.	51.	4.	1.	
42 DRILL WO/FERT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.	61.	4.	1.	
43 CFFSET DISK	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	37.	4.	2.	
44 SPRAYER	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	2.	74.	4.	2.	
45 CULTIBEODER AYHD	.0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.	95.	4.	2.	
46 DRILL WO/FERT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.	61.	4.	2.	
•					•														

49 ACIN IRRIG WATER C.C C.C 0.0 8.00 12.00 0.0 0.0 0.0 6.00 0.0 8.00 0.0

PAMMANDLE ENERGY BUDGETS CON IS YEAR 1: REDUCED YEAR 2 3 BU/AC. INCREASE WITH REDUCED TILLAGE HERBICIDE 1 IS 2.4-D. HERBICIDE 2 IS PARAQUAT.

*** NO NAME CHANG	ES HAVE	BEEN STOREC	WITH T	HIS BUDG	ET+++									
** NC COMPLEMENT	CHANGES	HAVE BEEN	STORED	HITH THE	S BUDG	ET***								
		MONTHLY	SUMMARY	OF RECE	IPIS /	ND EXP	ENSES							
CATEGORY	UNIT		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OC T	NOV	DEC	TOTAL
TOTAL RECEIPTS	ACRI		4.00	4.00	0.0		231.65	0.0	0.0	0.0	0.0	4.00	4.00	251.65
TOTAL EXPENSES			0.0	0.0	4.30		32.48	4.60	34.79	15.22	0.0	4.30	0.0	102.97
ETURNS TO LAND,	LASOR.	CAPITAL, MA	CHINERY	. OVERHE	AD R	SK, AN	D MANAGER	ENT						148.68
ANNUAL CAPITAL			0.0	0.0	0.72	0.54	0.0	4.21	28.99	11.42	0.0	2.51	0.0	48.38
 			QUIRENE	NTS RV M	ONTH									
ACHINERY LABOR	HR.	0.0	0.0	0.0	0.0	0.0	0.47	0.36	1.00	0.77	0.0	0.0	0.0	2.61
IRRIGATION LABOR			0.0	0.0	0.42	0.62		0.0	0.0	0.31	0.0	0.42	0.0	1.77
TOTAL LABOR	HR.	0.0	0.0	0.0	0.42	0.62		0.36	1.00	1.08	0.0	0.42	0.0	4.38
IRRIGATION WATER	INCI	1 0.0	0.0	0.0	6.00	12.00	0.0	0.0	0.0	6.00	0.0	8.00	0.0	34.00
		MACHINER	Y FI XED	AND VAR	TABLE	COSTS	PER HOUR				T (OT AL		
MACHINE	CODE	DEPR	INSUR.	TAX	TOTA	L FIXE	REPAIR		FUEL	LUB.	VAR	ABLE	INT.	FR/TIME
TRACTOR(2)	2	0.73	0.04	0.11		0.88	0.50		-04	0.16	1.	.69	0.74	1.00
FRACTOR (4)	` 4	1.05	0.06	0.16		1.27	0.72	- 1	49	0.22	2	.44	1.06	1.00
FFSET DISK	37	-1.66	0.07	0.21		1.94	0.43		0-0	0.0	0.	.43	1.24	0.13
AND PLANE	77	0.64	0.06	0.13		0.84	1.15		0.0	0.0		.15	1.03	0.47
CULTIBEODER AYHD			0.04	0.11		1.05	1.24	(D= 0	0.0	1.	24	0.67	0-16
ULTIBEDDER TILL	51	0.69	0.03	0.09		0.80	0.95		0.0	0.0		.95	0.51	0.11
			0.07	0.21	1.	1.93	0.44		0.0	0.0		.44	1.24	0.18
	37	1.66	0.07	0.21		1.94	0.43)• O	0.0		.43	1.24	0.13
SPR AY ER		0.40	0.02	0.05		0.47	0.11		0.0	0.0		.11	0.31	0.30
CULTIBEDDER AYHD	95	0.90	0.04	0. 11		1.05	1.24			0.0		-24	0.67	0.16
		1.65	0.07	0.21	+ 1 - 2	1.93	0-44		. 0	0.0	0.	.44	1.24	0.18
	IT EM	TIME	S LABOR	MACHINE HOURS	FUEL .	OIL,LU	B., FIXE	D COST	s					
SPRAYER	2,74			0.302		• 60		.77						
	4,37			0.129		-40		.74						
	4.77			0.234		90	1	.04						
ULTIBEDDER AYHD				0.164				.70						•
PRAYER	2,74			0.302		•60		+77					*.	
ULT IBEDDER TILL			0.139			0.42		.45	1				2.1	
RILL WO/FERT	4,61			0.179). 56		-03				*		
CULTIBEDDER AYHD				0.164		. 64								
	4,61		0.217			. 56	1							
FFSET DISK	4,37	JUN 2.00	0.313	0.259		. 81		.49			1 1			
DFFSET DISK TOTAL	4,37	1.00	_Oa157	-0-129		L40		14						and the second
TOTAL			2.607	2.155		o 53	5	.47						

TABLE LIV

REDUCED TILLAGE WHEAT AND GRAIN SORGHUM DOUBLE CROP ON CLAY LOAM SOIL WITH SURFACE IRRIGATION

CATEGORY	UN ITS	PRICE	QUANTITY	VALUE
PRODUCTION:				
WHEAT	BU.	2.050		-
MILO	CHT.	2.340	48.000	112.32
TOTAL RECEIPTS				214.82
OPERATING INPUTS:				1.2
NITROGEN	LBS.	0.140		16.80
WHEAT SEED	BU.	5.000	1.000	5.00
CUSTOM COMBINE	ACRE	9.400	1.000	9.40
CLSTOM HAULING	BU.	0.100	50.000 7.000	5. 00 1. 89
MILO SEED FERBICIDE	LBS. LBS.	0.270 2.400		3.60
NITREGEN	LBS.	0.140		16.80
INSECTICIDE	ACRE	2.200		2.20
CUST CM COMBINE	ACRE		1.000	10.00
CLSTOM HAULING	CWT.	0-100	1.000 48.000	4. 80
TRACTOR FUEL COST	ACRE	00.200	100,000	1.87
TRACT REPAIR COST	ACRE			0.90
TRACTOR LUBE COST	ACRE			0.28
EQUIP REPAIR COST	ACRE			0.59
IRRIG FUEL COST	ACRE			6.79
IRRIG LUBE COST	ACRE			1.83
IRRIG REPAIR COST	ACRE			6.99
TOTAL OPERATING COST				94. 73
RETURNS TO LAND, LABOR, CAPITAL, MACHINER OVERHEAD, RISK, AND MANAGEMENT CAPITAL COST:		ú 45-45 en 48-86-46-46-46-46-46-46-46-46-46-46-46-46-46		120.09
ANNUAL OPERATING CAPITAL		0.100	34.075	3. 41
TRACTOR INVESTMENT		0.100	13.311	1.33
EQUIPMENT INVESTMENT		0.100	7.291	0.73
IRRIGATION SYSTEM INVESTMENT		0.100	95.990	9. 60
TOTAL INTEREST CHARGE				15.07
RETURNS TO LAND, LABOR, MACHINERY, OVERFEAD, RISK AND MANAGEMENT				105.02
OWNERSHIP COST: (DEPRECIATION.				
TAXES, INSURANCE)				
TRACTOR	DOL.			1.59
E QUI PMENT	DOL.			1.16 15.17
IRRIGATION SYSTEM TOTAL CHNERSHIP COST	DUL.			17. 92
ICIAL CHNERSHIP COST	,			L 14 72
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				87.10
LABCR COST:		• •		
MACHINERY LABOR	HR.	3.000	1.488	
IRRIGATION LABOR	HR.	3.000	1.508	4.52
TCTAL LABOR COST				8.99
RETURNS TO LAND, OVERHEAD, RISK AND MANAGEMENT				78.11

PANHANCLE ENERGY BUDGETS
HERBICIDE AATREX
GRAIN SORGHUM 600 POUND INCREASE PER ACRE
ENTERPRISE 13 AREA AND COUNTY 10 DETAIL 00 IRIG. LEVEL 5 LAND CLASS 1
GRAZING 3 MACH. COMP. _1 IRIG. SYSTEM 5 PRICE VECT 1 INDIV. NUMBER _0
ANNUAL CAPITAL MONTH: 6
DATE PRINTED: 03/05/75

TABLE LIV (Continued)

				1.0														
	1 Jan	Z FEB	MAR	4 APR	5 May) JUN	JUL.	8 AUG	9 SEP	1 0 0 CT	11 NOV	12 DEC	13 PRICE	14 WEIGH	15 T UNIT			18 CON
INE															CODE	CODE		
RODUCT ICK		4.5			NUMBE	ER OF U	INITS											
1 WHEAT	0.0	0.0	0.0	0.0	0.0	50.00	0.0	0.0	0.0	0.0	0.0	0.0	2.050	0.0	2.	76.	2.	0.
2 MILO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.00	0.0	0.0	2.340	0.0	16.	73.	2.	0.
PERATING INPUTS					RAT	E/UNIT				•			PRICE		R UNIT			CON
1 MITROGEN	0.0	0.0	0.0	0.0	0.0			0.0		120.00	0.0	0.0	0.140	UNIT	2 CODE	211.		٥.
						0.0	0.0											
2 WHEAT SEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00		0.0	5.000	0.0		176.		0.
3 CUSTOM COMBINE	0.0	0.0	0.0	0.0	0.0	100	0.0	0.0	0.0	0.0	0.0	0.0	9.400	0.0		305.		٥.
4 CUSTOM HAULING	0.0	0.0	0.0	0.0	0.0	50.00	0.0	0.0	0.0	0.0	0.0	. 0.0	0.100	0.0		306.		0.
5 MILO SEED	0.0	0.0	0.0	0.0	0.0	7.00	0.0	0.0	0.0	0.0	0.0	0.0	0.270	0.0	12.			٥.
6 FERBICIDE	0.0	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	2.400	0.0	12.	250.	3.	c.
7 NITRUGEN	0.0	0.0	0.0	0.0	0.0 1	120.00	0.0	0.0	0.0	0.0	0.0	0.0	0.140	0.0	12.	211.	3.	0.
8 INSECTICIDE	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	2.200	0.0	7.	240.	3.	0.
9 CUSTON COMBINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00		0.0	10.000	0.0	7.			0.
O CUSTOM HAULING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.100	0.0	16.			ō.
	1.17							•••	•••		• •••	•••						
ACHINERY REQUIREM	ENT.S					TIMES	OVER						xxxxx	XXXXX	POWER	CODE		CON
8 STALK SHREDDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	4.			0.
9 CULTIBEDDER AYH	D 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00		0.0	0.0	0.0	4.	95.	4.	0.
O DRILL WC/FERT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00		0.0	0.0	0.0	4.			ő.
1 CULTIBEDDER PLN		0.0	0.0	0.0	0.0	1.00	0.0		. 0.0	0.0	0.0	0.0	0.0	0.0	4.	67.		ō.
2 SPRAYER	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.			ě.
3 ANHYDROUS APPLI							0.0							0.0	4.	73.		0.
S AINTIDAGUS APPLI		0.0	0.0	0.0	0.0	1.00	U. U	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*•	13.	٦.	٠.
9 ACIN IRRIG WATE	R 0.0	0.0	3.00	3. 00	3.00	6.00	5.00	0.0	3.0	3.00	3.00	0.0						
NO NAME CHANGES **NO COMPLEMENT C							ET*	v.										
		MONT			OF RECE				. -									
CATEGORY	UNIT			FEB	PAR	APR	MAY	JUN			AUG	SEP	OCT	NOV	DEC			OTAL.
GTAL RECEIPTS	ACRE			0.0	0.0	0.0	0.0	102.5			0.0	0.0	112.32	0.0	0.0			4.82
OTAL EXPENSES	ACRE			0.0	1.61	1.61	1.61				0.0	1.61	39.95	1.61	0.0			4.73
ETURNS TO LAND, L	ABUK (APII AL	HACH	INERY,	UVERH	EAU, KI	SK, AN	W MANA	AGEME	N I								0.09
NNUAL CAPITAL	DOL	. 0.	. 0	0.0	0.40	0.27	0.13	0.0	,	4 .48	0.0	1.21	26.63	0.94	0.0		3	4.08
				IR EM EN		ONTH												
ACHINERY LABOR	HR.	0.		0.0	0.0	0.0	0.0	0.8			0.0	0.0	0.63	0.0	0.0			1.49
RR IGATION LABOR	HR.	0.		0.0	0.16	0.16	0.16				0.0	0.16	0.16	0.16	0.0			1.51
CT#L LABOR	HR.	٥.		0.0	0.16	0.16	0.16	1.1	7 (0. 26	0.0	0.16	0.78	0.16	0.0			3.00
RRIGATION WATER	INC	1 0.	0	0.0	3.00	3.00	3.00	6.0	00	5.00	0.0	3.00	3.00	3.00	0.0		2	9.00
		MACH	NERY I	FIXED	AND VAR	TABLE	COSTS	PER HO	DUR.				TOI	AL				
	:COE	DEPR		SUR.	TAX		L FIXE		PAIR	FUE	L	LUB.	VARI	ABLE	INT.	HB	/T IME	
RACTOR(2)	2	0.73	0.	. 04	0.13	ı i	0.88	٥.	.50	1.0	4	0.16	1.6	9	0.74		1.00	
RACTOR (4)	4	1.05		.06	0.16		1.27		72	1.4		0.22	2.4		1.06		1.00	
	81	0.59		.02	0.06		0.68		33	0.0		0.0	0.3		0.39		0.18	
	95	0.90		.04	0.11		1.05		24	0.0		0.0	1.2		0.67		0.16	
	61.	1.65		.07		:	1 03								1 24		0.18	
					0.21	•	1.93		44	0.0		0.0	0.4		1.24			
	67	1.24		-05	0.13		1.42		. 77	0.0		0.0	0.7		0.82		0.15	
PRAYER NHYDROUS APPLIC	74 73	0.40		.02 .03	0.05		0.47		.11 .37	0.0		0.0	0.1 0.3		0.31		0.30	
MAIDROUS APPLIC		V•30		•••	J.01		0.66	· · · · · · · · · · · · · · · · · · ·		9. 0	·		U • 3	· ·	U.43			
	ITEM				MACHINE					COSTS								
CFERATION	NO.			HOURS			R PER		PER	ACRE								
ALK SHREDDER	4,81	OCT :	.00	0. 214	0.177		. 53		0.0	54								
ULTIBEDDER AYHD	4,95		-00	0.198	0.164		64		0.									
RILL WO/FERT	4,61			0.217	0.179		.56		1.0									
WIFE MOLLEKI	4401				20113	Ų	. 20		T .									

TABLE LV

REDUCED TILLAGE WHEAT-FALLOW-SORGHUM THREE YEAR ROTATION ON CLAY LOAM SOIL WITH HEAVY SURFACE IRRIGATION

CATEGORY	UNITS		QUANTITY	
WHEAT	BU.	2.050	55.000	112.75
GRAZ ING	AUMS	10.000	1.000	10.00
MILO	CWT.	2.340	62.000	145.08
MILO STUBBLE	AUMS	6.000	1.400	8.40
MILO STUBBLE TGTAL RECEIPTS	<u> </u>		55.000 1.000 62.000 1.400	276.23
OPERATING INPUTS:				
NITRCGEN	LBS.	0.140	120.000	16.80
WHEAT SEED	LBS. BU.	5.000	1.000	5. 00
CUSTOM COMBINE		9.800	1.000	9.80
CUSTOM HAULING	BU.	0-100	1.000 55.000 3.000 10.000 125.000	5.50
HERBICIDE	LBS.	2.400	3.000	7. 20
MILO SEED	LBS.	0.270	10.000	2.70
MILO SEED NITROGEN	LBS	0-140	125,000	17.50
INSECTICIDE	ACRE	2-200	1.000	2.20
CUSTON COMBINE	ACRE	10.000	1.000	10.00
	LBS.	0.100	1.000 1.000 62.000	6, 20
TRACTOR FUEL COST	ACRE	0.100	024000	2.14
	ACRE			1.04
	ACRE			0. 32
	ACRE			0.73
IRRIG FUEL COST	ACRE			8.60
IRRIG LUBE COST	ACRE			7. 75
IRRIG REPAIR COST	ACRE ACRE			
TOTAL CPERATING COST				6.52 110.00
OVERFEAD, RISK, AND MANAGEMENT CAPITAL COST:				
ANNUAL CPERATING CAPITAL		0.100	49.217	4, 92
TRACTOR INVESTMENT EGUIPMENT INVESTMENT		0.100	15.247	1.52
ECUIPMENT INVESTMENT	.*	0.100	8.84 9	0.88
IRRIGATION SYSTEM INVESTMENT TOTAL INTEREST CHARGE		0.100	49.217 15.247 8.849 101.322	10.13 17.46
RETURNS TO LAND, LABOR, MACHINERY, OVERHEAD, RISK AND MANAGEMENT	_			148.77
OWNERSHIP COST: (DEPRECIATION,	-			
TAXES, INSURANCE) TRACTOR				
TRACTOR	DOL.			1.82
ECUIPMENT	DQL.			1. 32
	DOL.			23.57
IRRIGATION SYSTEM				26- 71
IRRIGATION SYSTEM TOTAL CWNERSHIP COST				
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				122.05
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				122. 05
~ _ ~				122. 05
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				122. 05
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				122. 05

PANHANCLE ENERGY BUDGETS HERBICIDE AATREX

ENTERPRISE 13 AREA AND COUNTY 10 DETAIL 00 IRIG. LEVEL 6 LAND CLASS 1 GRAZING 3 MACH. COMP. 1 IRIG. SYSTEM 5 PRICE VECT 1 INDIV. NUMBER 0 ANNUAL CAPITAL MONTH: 6 DATE PRINTED: 03/05/75

TABLE LV (Continued)

	L JAN	Z FEB	3. MAR	4 APR	MAY	JUN	7 JUL	AUG	9 SEP	10 OCT	11 NOV	DEC	13 PRICE	14 WE IGHT	TINU		17 TYPE	L8 CONT
NE ODUCT ION					NUMBE	R OF L	NITS								CODE	CODE		
L WHEAT	0.0	0.0	0.0	0.0	0.0	55.00	0.0	0.0	0.0	0.0	0.0	0.0	2.050	0.0	2.	76.	2.	1.
Z GRAZING	0.20		0.20		0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.20	10.000	0.0	10.	89.	2.	۱.
MILO	0.0	0.0	0.0	0.0	0. C	0.0		0.0	0.0		0.0	0.0	2.340	0.0	16.	73.	2.	3.
MILO STUBBLE	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0. 50		0.0	10.	157.	2.	3.
PERATING INPUTS	***				RAT	E/UNIT	•						PRICE	NUMBER	CODE		TYPE	CON
1 NITROGEN	0.0	0.0	0.0	0.0	0.0	0.0		20.00	0.0	0.0	0.0	0.0	0.140	0.0		211.	3.	1.
2 WHEAT SEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	, 0.0	5.000	0.0			3.	1.
3 CUSTOM COMBINE	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	9.800	0.0		305.	3.	1.
4 CUSTON HAULING 5 PERBICIDE	0.0	0.0	0.0	0. 0 0. 0	0.0	55.00	0.0 3.00	0.0	0.0	0.0	0.0	0.0	0.100 2.400	0.0	.2.	306. 250.	3. 3.	1.
FILO SEED	0.0	0.0	0.0	0.0		10.00	0.0	0.0	0.0	0.0	0.0	0.0	0-270	0.0		173.	3.	3.
7 NITROGEN	0.0	0. C	0.0	0.0		25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.140	0.0		211.	3.	3.
INSECTICIDE	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	2.200	0.0		240.	3.	Э.
CUSTON COMBINE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00		0.0	10.000	0.0			3.	3.
CUSTOM HAULING		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62 .00	0.0	0.0	0.100	0.0	12.	306.	3.	3.
ACHINERY REQUIRE	MENTS		٠.			TIMES	OVER						XXXXX	XXXXX		MACH	TYPE	CONT
B ROD WEEDER	0.0	0.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	59.	4.	ı.
9 SWEEP AYHD	. 0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	.0.0	0.0	0.0	0.0	4.	90.	4.	1.
O DRILL WO/FERT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.	61.	4.	1.
1 SPRAYER	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.	74.	4.	Į.
2 CULTIBEDDER PL 3 SWEEP AYHD	NT 0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	67. 90.	4.	3. 3.
CULTIBEDDER TI		0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	4.	51.	4.	ő.
															•		-	
ACIN IRRIG WAT	rER 0.0	0.0	3.00	3. 00	8.00	3.60	7.20	7.20	0.0	0.0	4.00	0.0						
CANHANI	LE ENERG	v micci	ET C										MACHE	NERY CO	MDI EM	GNT		
HERBIC I	DE AATRE	X											EQUIP	MENT CO	MPLEM	ENT	1	
** NC COMPLEMENT	CHANGES																	
CATEGORY	. UNIT	J		FEB	OF RECE MAR	APR	ND EXI	PENSES JUN			AUG	SEP	OC T	NOV	DEC		T	OT AL
TAL RECEIPTS	ACRE			2.00	2.00	0.0	0.0	112.7			0.0		145.08	5.00	5.00			5.23
OTAL EXPENSES ETURNS TO LAND,	ACR E			0.0	1.91	1.91	5.0				2.28	5.48	16.20	2.54	0.0			0.00 5.23
TORNS TO EMBLY	CABOK! (AP 11 AL			OVERNE	AU, 11				' 								
NNLAL CAPITAL	DGL.			0.0	0.48	0.32	0.4	2 0.0	13	. 04 1	8.56	4.11	10.80	1.48	0.0		4	9.22
CHINERY LABOR	HR.	LABOR		IREMEN 0.0	TS BY M	0.0	0.0	0.6	1 0	. 11	0.38	0.22	0.0	0.0	0.0			L .32
RRIGATION LABOR	HR.	٥.	.0	0.0	0.16	0.16	0.42	0.1	9 0	.37	0.37	0.0	0.0	0.21	0.0	•		.87
OTAL LABOR	HR.	. 0.	•0	0.0	0.16	0.16	0.42	2 0.8	0 . 0	. 85	0.76	0.22	0.0	0.21	0.0			3.20
RIGATION WATER	INCH	0.	.0	0.0	3.00	3.00	8.00	3.6	0 7	.20	7.20	0.0	0.0	4.00	0.0		3	5.00
MACHINE	CODE .	MACH!	INERY	FIXED SUR.	AND VAR		COSTS L FIXE			FUE	 1	LUB.	TOT VAR IA		INI .	нь.	TIME	
RACTOR (2)	2	0.73		.04	0.11		0.88		50	1.0		0.16	1.6		0.74		.00	
RACTOR (4)	4	1.05		.06	0.14		1.27		72	1.4		0.22	2.4		1.06		.00	
OD WEEDER	59.	0.80	0	•04	0.10	r .	0.93	0.	21	0.0		0.0	0.2	1 .	0.60	(0.09	
HEEP AYHD	90.	0.63		.03	0.11		0.77		7.8	0.0		0.0	0.7		0.58		26	
RILL WO/FERT Prayer	61	1.65 0.40		.07 .02	0.21 0.05		1.93	0.		0.0		0.0	0.4		1.24		0.18	
ULTIBEDDER PLNT		1.24		•05	0.13		0.47 1.42	0.		0.0		0.0	0.1		0.82		0.15	
	67						0.77		78	0.0		0.0	0.7		0.58		26	
			. 0	.03	0.11													
WEEP AYHO ULTIBEDDER TILL	67 90	0.63		.03 .03	0.11		0.80	ō.		0.0		0.0	0.9		0.51		.11	
HEEP AYHO	67 90 51	0.63		.03	0.09		0.80	0.	95	0.0							-11	
EEP AYHO	67 90 51	0.63	O IMES	.03		FUEL,	0.80 	0. IB., F	95 IXED	0.0 Cas Ts	 						7.11	
CPERATION	67 90 51 ITEM NO.	0.63 0.69 DATE (IMES VER	.03 LABOR HOURS	0.09 MACHINE HOURS	FUEL, REPAI	O.BO OIL,LL R PER	0. IB., F	IXED PER A	O.O COSTS CRE							0.11	
CPERATION D WEEDER RAYER	67 90 51 ITEM NO. 4,59 2,74	0.63 0.69 DATE (IMES IVER	.03 LABOR HOURS 0.114 0.365	0.09 MACHINE HOURS 0.094 0.302	FUEL, REPAI	0.80 OIL,LL R PER	0. IB., F	95 IXED PER A 0.3 0.7	O.O COSTS CRE							0.11	
HEEP AYHO ULTIBEDDER TILL: CPERATION DD WEEDER PRAYER HEEP AYHO	67 90 51 ITEM NO. 4,59 2,74 4,90	0.63 0.69 DATE (0 TIMES DVER	.03 LABOR HOURS 0.114 0.365 0.313	0.09 MACHINE HOURS 0.094 0.302 0.258	FUEL, REPAI	0.80 OIL,LL R PER -27 -60	0. IB., F	95 IXED PER A 0.3 0.7 1.0	COSTS CRE							0.11	
HEEP AYHO ULTIBEDDER TILL	67 90 51 ITEM NO. 4,59 2,74 4,90 4,51	O.63 O.69 DATE C	0 I MES	.03 LABOR HOURS 0.114 0.365	0.09 MACHINE HOURS 0.094 0.302	FUEL, REPAI	0.80 OIL,LL R PER	0. IB., F	95 IXED PER A 0.3 0.7	COSTS CRE							2.11	

TABLE LVI

REDUCED TILLAGE WHEAT-FALLOW-SORGHUM THREE YEAR ROTATION ON CLAY LOAM SOIL WITH MODERATE SURFACE IRRIGATION

CATEGORY	UNITS		QUANTITY	
PRODUCTION:				
WHEAT	BU.	2.050		112.75
GRAZING	AUMS	10.000	1.000	10.00
MILO	CHT.	2.340	48.000	112.32
MILO STUBBLE	AUMS	6.000	48.000 1.000	6.00
TOTAL RECEIPTS				241.07
OPERATING INPUTS:				
NITROGEN	LBS.	0.140	120.000	16.80
WHEAT SEED	BU.	5.000	1.000	5.00
CUSTEM CEMBINE	ACRE	9.800	1.000	9. 80
CUSTOM HAULING	BU.	0.100	55.000	5.50
F ERB IC IDE	LBS.	2.400	3.000	7.20
MILO SEED	LBS.	0.270	7.000	1.89
NITROGEN	LBS.	0.140	120.000	16.80
INSECTICIDE	ACRE	2.200	1.000	2.20
CUSTOM CCHBINE	ACRE	10.000	1.000 48.000	10.00
CUSTOM HAULING	LBS.	0.100	48.000	4.80
TRACTOR FUEL COST	ACRE			2.14
TRACT REPAIR COST	ACRE			1.04
TRACTOR LUBE COST	ACRE			0.32
EQUIP REPAIR COST	ACRE			0. 73
IRRIG FUEL COST	ACRE			6.79
	ACRE			1.83
IRRIG REPAIR COST	ACRE			6.99
TOTAL OPERATING COST	HUNL			99.82
RETURNS TO LAND, LABOR, CAPITAL, MACHINERY, OVERHEAD, RISK, AND MANAGEMENT				141.25
		A 100	42 010	4.38
ANNUAL OPERATING CAPITAL TRACTOR INVESTMENT			43.810	1.52
		0.100	15.247	0.88
ECUIPMENT INVESTMENT IRRIGATION SYSTEM INVESTMENT		0.100	8.849 95.990	9.60
TOTAL INTEREST CHARGE		0.100	95.990	16.39
RETURNS TO LAND, LABOR, MACHINERY,				
OVERHEAD, RISK AND MANAGEMENT				124.86
OWNERSHIP COST: (DEPRECIATION,				
TAXES, INSURANCE)				
TRACTOR	DOL.			1.82
EQUIPMENT	DOL.			1.32
	DOL .			15. 17
TOTAL OWNERSHIP COST				18.31
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				1 06.55
LABCR COST:				
MACHINERY LABOR	HR. HR.	3.000	1.323	
IRRIGATION LABOR	HR.	3.000	1. 508	4. 52
TOTAL LABOR COST	·			8.49
RETURNS TO LAND, OVERMEAD, RISK AND MANAGEMENT				98.06

PANHANDLE ENERGY BUDGETS
HERBICIDE AATREX
GRAIN SORGHUM 600 POUND INCREASE PER ACRE
ENTERPRISE 73 AREA AND COUNTY 10 DETAIL 00 IRIG. LEVEL 3 LAND CLASS 1
GRAZING 3 MACH. COMP. __1 IRIG. SYSTEM 5 PRICE VECT 1 INDIV. NUMBER _0
ANNUAL CAPITAL MONTH: 6
DATE PRINTED: 03/05/75

TABLE LVI (Continued)

	JAN	2 FEB	3 MAR	4 APR	5 May	6 JUN	7 JUL	8 AUG	9 SEP	10 OCT	NOV	12 DEC	13 PRICE	14 WEIGHT		ITEM	L7 TYPE	18 CONT
LI NE PRODUCTION	200				NUMBE	R CF U	NITS.		٠.						CODE	COUL		
1 WHEAT	0.0	0.0	0.0	0.0		55.00	0.0	0.0	0.0	0.0	0.0	0.0	2.050	0.0	2.	76.	2.	1.
2 GRAZING	0.20		0.20	0.0	0. Ó	0.0	0.0	0.0	0.0	0.0	0.20		10.000	0.0	10.	89.	2.	1.
3 MILO	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.00	0.0	0.0	2.340	0.0	16.	73.	2.	3.
4 FILO STUBBLE	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.30	6.000	0.0	10.	157.	2.	3.
PERATING INPUTS		**			RAT	E/UNIT					•		PRICE	NUMBER			TYPE	CONT
1 AITROGEN	0.0	0.0	0.0	0.0	0.0	0-0		20.00	Q. 0	0.0	0.0	0-0	0.140	0.0	CODE 12.		3.	1.
2 WHEAT SEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	5.000	0.0	2.	176.	3.	i.
3 CUSTON COMBINE	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	9.800	0.0	7.	305 .	3.	i.
4 CUSTOM HAULING	0.0	0.0	0.0	0.0	0.0	55.00	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.0	2.	306.	3.	1.
5 FERBICIDE	0.0	0.0	0.0	0.0	0.0	0.0	3.00	0.0	0.0	0.0	0.0	0.0	. 2.400	0.0	12.	250.	3.	1.
6 MILO SEED	0.0	0.0	0.0	0.0	0.0	7.00	0.0	0.0	0.0	0.0	0.0	0.0	0.270	0.0		173.	3.	3.
7 NITROGEN 8 INSECTICIDE	0.0	0.0	0.0	0.0		20.00	0.0	0.0	0.0	0.0	0.0	0.0	0.140	0.0		211. 240.	3. 3.	3.
8 INSECTICIDE 9 CUSTOM COMBINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.200	0.0	7. 7.	305.	3.	3. 3.
O CUSTOM HAULING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.00	0.0	0.0	0.100	0.0	12.	306.	3.	3.
ACHINERY REQUIREMEN		•••	•••			TIMES					•••	•••	xxxxx	XXXXX		• • • •		CONT
8 ROD WEEDER	0.0	0.0	0.0	0.0	0.0	1,00	1.00	0.0	00	0.0	0.0	0.0	0.0	0.0	UNIT		4.	1.
9 SWEEP AYHD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	4.	90.	4.	i.
O DRILL WO/FERT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.	61.	4.	ı.
1 SPRAYER	0.0	0.0	0.0	0.0	0.0	0.0	L.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.	74.	4.	1.
2 CULTIBEDDER PLNT		0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	67.	4.	3.
3 SWEEP AYHD 4 CHITINEDDER TILL	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0			0.0	0.0	0.0	0.0	•	90.	4.	3.
4 CULTIBEDDER TILL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	4.	51.	4.	0.
9 ACIN IRRIG WATER	0.0	0. a	3.00	3.00	8.00	3.00	4.00	4-00	0.0	4.00	0.0	0.0						
The state of the s												- • •						
HERBICIDE	AATREX					_							EQUIP	MENT CO	MPL EM	:NT	1	
NO NAME CHANGES	HAVE BE	O POUN EN STO		TH THE	S BUDG	ET*	ET***											
GRAIN SUR	HAVE BE	O POUN EN STO AVE BE	RED WI	TH THI	S BUDG	ET***		ENSES							····		·	
NO NAME CHANGES **AC COMPLEMENT CH CATEGORY	HAVE BE	O POUN EN STO AVE BE MONTH	RED WI EN STO ILY SUM	TH THE RED WI MARY O	S BUDG TH THE F RECE MAR	ET* S BUDG IPTS A APR	ND EXP	JUN			.ug	SEP	OCT	NOV	DEC			OT AL
NO NAME CHANGES **AC COMPLEMENT CH CATEGORY OTAL RECEIPTS	HAVE BE	O POUN EN STO AVE BE MONTH	RED WI	TH THE	S BUDG TH THE F RECE MAR 2.00	SET* S BUDG IPTS A APR 0.0	ND EXP	JUN 112.7	5 0	.o a	.0	0.0	112.32	4.40	3.80		24	1.07
**NO NAME CHANGES **AC COMPLEMENT CH CATEGORY OTAL EXPENSES	HAVE BE	O POUN EN STO AVE BE MONTH	EN STO	TH THE	S BUDG TH THI F RECE MAR 2.00 1.61	S BUDG	ND EXF MAY 0.0 4.30	JUN 112.7 37.2	5 O	.0 0 .80 19	.0						24	9.82
**NO NAME CHANGES **AC COMPLEMENT CH CATEGORY OTAL EXPENSES	HAVE BE	O POUN EN STO AVE BE MONTH	EN STO	TH THE	S BUDG TH THI F RECE MAR 2.00 1.61	S BUDG	ND EXF MAY 0.0 4.30	JUN 112.7 37.2	5 O	.0 0 .80 19	.0	0.0	112.32	4.40	3.80	!	24	1.07
**NO NAME CHANGES **AC COMPLEMENT CH CATEGORY OTAL EXPENSES ETURNS TC LAND, LA	HAVE BE	O POUN EN STO AVE BE MONTH	EN STO	MARY O	S BUDG TH THI F RECE MAR 2.00 1.61	S BUDG	ND EXF MAY 0.0 4.30	JUN 112,7 37.2 D MANA	S O B II. GEMEN	.0 0 .80 19	.85	0.0 5.48	112.32	4.40	3.80	:	241 94 141	9.82
**NO NAME CHANGES **AC COPPLEMENT CH CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TC LAND, LA NNUAL CAPITAL	HAVE BE MANGES H UNIT ACRE ACRE BOR, CA	O POUN EN STO AVE BE MONTH 3. 0. PITAL,	PRED WILL STORE ST	TH THI RED WI MARY O EB .00 .0 NERY,	S BUDG TH THI F RECE MAR 2.00 1.61 OVERHE 0.40	IS BUDG IPTS A APR 0.0 1.61 AD, RI 0.27	ND EXF MAY 0.0 4.30 SK, AN	JUN 112.7 37.2 D MANA	S O 8 LL GEMEN	0 0 80 19 T	.85	0.0 5.48 4.11	112.32	0.0	3.80 0.0		241 99 14	1.07 9.82 1.25
**NO NAME CHANGES **NC COMPLEMENT CH CATEGORY OTAL EXPENSES ETURNS TC LAND, LA NNUAL CAPITAL ACHINERY LABOR	HAVE BE ANGES H UNIT ACRE ACRE BOR, CA DOL.	O POUN EN STO AVE BE MONTH JA 3. O. PITAL, LABOR	PRED WILL STORE ST	TH THI RED WI MARY O EB .OO .O NERY, .O REMENT	TH THE F RECE MAR 2.00 1.61 OVERHE 0.40 S BY M	S BUDG IPTS A APR 0.0 1.61 AD+ RI 0.27 CONTH 0.0	ND EXF MAY 0.0 4.30 SK, AN	JUN 112.7 37.2 ID MANA 0.0	5 0 8 11 GEMEN 10	.0 0 .80 19 T .82 16		0.0 5.48	11.30	4.40 0.0	3.80 0.0 0.0	:	241 94 141 43	1.07 9.82 1.25 3.81
**NO NAME CHANGES **AC COPPLEMENT CH CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TC LAND, LA NNUAL CAPITAL ACHIMERY LABOR RR IGATION LABOR	HAVE BE MANGES H UNIT ACRE ACRE BOR, CA	O POUN EN STO AVE BE MONTH 3. 0. PITAL,	PRED WILL SUM FROM FOR COMMACHIES OF COMMACH	TH THI RED WI MARY O EB .OO .O REMENT	S BUDG TH THI F RECE MAR 2.00 1.61 OVERHE 0.40	S BUDG IPTS A APR 0.0 1.61 AD, RI 0.27 ONTH 0.0 0.16	ND EXF MAY 0.0 4.30 SK, AN	JUN 112.7 37.2 ID MANA 0.0	5 0 8 11 GEMEN 10	.80 19 7 .82 16		0.0 5.48 4.11	112.32	0.0 0.0	3.80 0.0	!	241 94 14	1.07 9.82 1.25
**NO NAME CHANGES **AC COPPLEMENT CH CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TC LAND, LA NNUAL CAPITAL ACHIMERY LABOR RR IGATION LABOR	HAVE BE HANGES H UNIT ACRE ACRE BOR, CA DOL. HR.	O POUN EN STO AVE BE MONTH 3. O. PITAL, LABOR	EEN STORED WILL STORE ST	TH THI RED WI MARY O .00 .0 NERY0 REMENT	TH THE F RECE MAR 2.00 1.61 OVERHE 0.40 S BY M 0.0	S BUDG IPTS A APR 0.0 1.61 AD+ RI 0.27 CONTH 0.0	0.36 0.0 0.36	JUN 112.7 37.2 ID MANA 0.0 0.6 0.1 0.7	5 0 11. GEMEN 10. 1 0. 6 0. 7 0.	.0 0 .80 19 T .82 16 .21 0 .69 0		0.0 5.48 4.11 0.22 0.0	11.30 0.0 0.21	0.0 0.0	0.0 0.0		241 94 14	1.07 9.82 1.25 3.81
NO NAME CHANGES *C COMPLEMENT CH CATEGORY DTAL EXPENSES ETURNS TC LAND, LA NNUAL CAPITAL ACHINERY LABOR GTAL LABOR GTAL LABOR	HAVE BE HANGES H UNIT ACRE ACRE BOR, CA DOL. HR.	O POUN EN STO AVE BE MONTH JA 3. O- LABOR O- O-	RED WILLEN STORED WILLY SUM AN FROM PACHING OF CO.	MARY OF EBOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	S BUDG TH THE F RECE MAR 2.00 1.61 OVERHE 0.40 S BY M 0.0 0.16 0.16	S BUDG IPTS A APR 0.0 1.61 AD, RI 0.27 CONTH 0.0 0.16 0.16	0.36 0.00 0.42 0.42	JUN 112.7 37.2 10 MANA 0.0 0.6 0.1 0.7	5 0.8 11.6 GEMEN 10.1 0.6 0.7 0.4	.82 16 .81 0 .21 0		0.0 5.48 4.11 0.22 0.0	11.30 0.0 0.21 0.21	0.0 0.0 0.0 0.0 0.0	0.0 0.0		24 99 14	1.07 9.82 1.25 3.81
NO NAME CHANGES **AC COPPLEMENT CH CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TC LAND, LA NNUAL CAPITAL ACHINERY LABOR RR IGATION LABOR OTAL LABOR RR IGATION MATER	HAVE BE (ANGES H UNIT ACRE ACRE BOR, CA DOL. HR. HR.	O POUN EN STO AVE BE MONTH JA O PITAL, O LABOR O O O	EEN STO LY SUM NN F 80 2 0 0 MACHI 0 0 0 0 0 0	TH THI RED WI MARY O EB .OO NERY, .O REMENT	S BUDG TH THI F RECE HAR 2.00 1.61 OVERHE 0.40 S BY M 0.16 0.16 3.00 ND VAR	ET* IS BUDG IPTS A APR 0.0 1.61 AD, RI 0.27 IONTH 0.0 0.16 0.16 3.00 IABLE	0.00 0.00 0.00 0.02 0.02 0.02 0.02	JUN 112.7 37.2 10 MANA 0.0 0.6 0.1 0.7	5 0 8 11. GEMEN 10. 1 0. 6 0. 7 0.	.80 19 7 .82 16 .11 0 .21 0 .69 0	.0 .85 55 38 21 59	0.0 5.48 4.11 0.22 0.0 0.22	11.30 0.0 0.21 0.21 4.00	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0		241 94 141	1.07 9.82 1.25 3.81 1.32 1.51 2.83
**NO NAME CHANGES **AC COMPLEMENT CH CATEGORY OTAL EXPENSES OTAL EXPENSES ETURNS TC LAND, LA NNUAL CAPITAL ACHIMERY LABOR RR IGATION LABOR OTAL LABOR RR IGATION MATER MACHIME MACHIME CO	HAVE BE (ANGES H UNIT ACRE ACRE BOOR, CA DOL. HR. HR. HR.	O POUN EN STO AVE BE MONTH 30. PITAL, LABOR 0. MAGHI DEPR	EEN STO EEN	TH THI RED WI MARY O EB .OO NERY, .O REMENT .O .O	S BUDG TH THE F RECE MAR 2.00 OVERHE 0.40 S BY M 0.0 0.16 3.00 ND VAR TAX	S BUDG IPTS A APR 0.0 1.61 AD, RI 0.27 ONTH 0.0 0.16 3.00 IABLE TOTA	0.0 0.42 0.00 4.30 0.36 0.00 0.42 0.42	JUN 112.7 37.2 10 MANA 0.0 0.6 0.1 0.7 3.0	5 0 8 11 GEMEN 10.	.0 0 .80 19 7	.0 .85 55 38 21 59	0.0 5.48 4.11 0.22 0.0 0.22	11.30 0.0 0.21 0.21	0.0 0.0 0.0 0.0 0.0 0.0	3.80 0.0 0.0 0.0 0.0 0.0	, HR/	24 94 14 4:	1.07 9.82 1.25 3.81 1.32 1.51 2.83
**NO NAME CHANGES **AC COPPLEMENT CH CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TC LAND, LA NNUAL CAPITAL ACHIMERY LABOR RR IGATION LABOR OTAL LABOR RR IGATION MATER MACHIME RACTOR(2)	HAVE BE (ANGES H UNIT ACRE ACRE BOR, CA DOL. HR. HR. HR.	O POUN EN STO AVE BE HONTH JA O. PITAL, O. LABOR O. O. MAGHI DEPR	EEN STO EEN STO ELY SUM IN F 80 2 0 0 MACHI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH THI RED WI MARY O EB .00 .00 .00 .00 .00 .00 .00 .0	S BUDG TH THI F RECE MAR 2-00 1-61 0VERHE 0.40 S BY M 0.0 6-16 3-00 ND VAR TAX 0.11	S BUDG IPTS A APR 0.0 1.61 AD, RI 0.27 ONTH 0.0 0.16 0.16 3.00 IABLE TOTA	0.36 0.0 0.36 0.0 0.42 0.42 8.00 CDSTS L FIXE	JUN 112,77 37.20 MANA 0.0 0.6 0.1 0.7 3.0 PER HO D Rep 0.	5 0 8 11. GEMEN 10. 1 0.66 0.7 0. UR AIR 50	.80 19 7 .82 16 .11 0 .21 0 .69 0	.0 .85 55 38 21 59	0.0 5.48 4.11 0.22 0.0 0.22	112.32 16.95 11.30 0.0 0.21 0.21 4.00 TOT VARIA	0.0 0.0 0.0 0.0 0.0 0.0 0.0	3.80 0.0 0.0 0.0 0.0 0.0 1NT.	16/	241 99 14: 4: 77 THE 1.00	1.07 9.82 1.25 3.81 1.32 1.51 2.83
**NO NAME CHANGES **AC COMPLEMENT CH CATEGORY OTAL EXPENSES OTAL EXPENSES ETURNS TC LAND, LA NNUAL CAPITAL ACHINERY LABOR RC IGATION LABOR GT AL LABOR RR IGATION WATER MACHINE CO RACTOR(2) RACTOR(4)	HAVE BE (ANGES H UNIT ACRE ACRE BOR. CA DOL. HR. HR. INCH	O POUN EN STO AVE BE MONTH 30. PITAL, LABOR 0. MAGHI DEPR	EEN STO EEN STO ELY SUM IN F 80 2 0 0 MACHI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MARY OF THE MARY O	S BUDG TH THE F RECE MAR 2.00 OVERHE 0.40 S BY M 0.0 0.16 3.00 ND VAR TAX	S BUDG IPTS A APR 0.0 1.61 AD, RI 0.27 ONTH 0.0 0.16 3.00 IABLE TOTA	0.0 0.42 0.00 4.30 0.36 0.00 0.42 0.42	JUN 112.7 37.2 10 MANA 0.0 0.6 0.1 0.7 3.0	5 0 8 11. GEMEN 10. 1 0.66 0.7 0. 0 4. UR AIR 550 72	.0 0 .80 19 7	.0 .85 55	0.0 5.48 4.11 0.22 0.0 0.22	11.30 0.0 0.21 0.21	0.0 0.0 0.0 0.0 0.0 0.0 0.0	3.80 0.0 0.0 0.0 0.0 0.0	16/	24 94 14 4:	1.07 9.82 1.25 3.81 1.32 1.51 2.83
**NO NAME CHANGES **AC COMPLEMENT CH CATEGORY OTAL EXPENSES OTAL EXPENSES ETURNS TC LAND, LA NNUAL CAPITAL ACHINERY LABOR RR IGATION LABOR OT AL LABOR MACHINE MACHINE MACHINE ACHINERY ACHINERY CONTROL ACHINERY ACHINERY ACHINERY ACHINERY CONTROL ACHINERY ACHI	HAVE BE VANGES H UNIT ACRE ACRE BOR, CA DOL. HR. HR. HR. INCH	O POUN EN STO AVE BE HONTH 3. O. PITAL, O. LABOR O. O.	RED WI EEN STO LY SUMM BSO 2 O 0 MACHI O 0 O 0 NERY F INS O 0 O 0	TH THI RED WI MARY OF E-00 .00 .00 .00 REMENT .00 .00 IXED A UR. 04 06 04 06 00 00 00 00 00 00 00 00 00	S BUDG TH THI F RECE MAR 2.00 1.61 0.40 S BY M 0.0 0.16 3.00 ND VAR TAX 0.11 0.11 0.10	S BUDG IPTS A APR 0.0 1.61 AD. RI 0.27 IONTH 0.0 0.16 3.00 IABLE TOTA	ND EXP MAY 0-0 4-30 SK, AN 0-36 0-0 0-42 0-42 8-00 COSTS L FIXE 0-88 1-27 0-93 0-7	JUN 112.7 37.22 ID MANA 0.6 0.1 0.7 3.0 PER HOD D REP 0.0	5 0 8 11. GEMEN 10. 1 0.6 0.7 0. UR AIR 572 21	.82 16 .82 16 .11 0 .69 0 .00 4 FUEL 1.04	.0 .85 	0.0 5.48 4.11 0.22 0.0 0.22 0.0 0.16 0.22 0.0	11.30 0.0 0.21 0.21 4.00 TOT VARIA 1.66 2.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	3.80 0.0 0.0 0.0 0.0 0.0 1NT.	+6:/ 1 1	24 99 14: 4: 7TIME 1.00	1.07 9.82 1.25 3.81 1.32 1.51 2.83
**NO NAME CHANGES **AC COMPLEMENT CH CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TC LAND, LA NNUAL CAPITAL ACHINERY LABOR RR IGATION LABOR OTAL LABOR MACHINE RR IGATION MATER MACHINE RACTOR(2) RACTOR(4) OO WEEDER SEEP AYHO SILL MOJFERT 6	HAVE BE VANGES H UNIT ACRE ACRE BOR, CA DOL. HR. HR. HR. 1NCH	MONTH JA So PITAL, LABOR O. MACHI DEPR 0.73 0.80 0.80	DRED WILL STORM TO ST	TH THI RED WI MARY O EB -00 .0 .0 .0 .0 .0 .0 .0 .0 .0	S BUDG TH THI F RECE MAR 2.00 1.61 0.40 S BY M 0.0 0.16 3.00 ND VAR 0.11 0.16 0.10 0.10	S BUDG IPTS A APR 0.0 1.61 AD, RI 0.27 DNTH 0.0 0.16 0.16 3.00 IABLE TOTA	ND EXP MAY 0-0 4-30 SK, AN 0-36 0-0 0-42 0-42 8-00 CDSTS L FIXE 0-88 1-27 0-93 0-77	JUN 112.7 37.2 10 MANA 0.0 0.6 0.1 0.7 3.0 PER HO D. REP 0.0 0.0	10. 10. 10. 1 0. 6 0. 7 0. 0 4. UR AIR 50. 72. 21.	.80 19 7 .82 16 .11 0 .21 0 .69 0 FUEL 1.04 1.49 0.0 0.0	0 85 55	0.0 5.48 4.11 0.22 0.0 0.22 0.0 0.16 0.22 0.0 0.0	112.32 16.95 11.30 0.0 0.21 0.21 4.00 TOT VARIA 1.6 0.2 0.7 0.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0	3.80 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.60 0.58	16./1 1 0 0	24 96 14 4: 7TIME 1.00 1.00 0.26 0.18	1.07 9.82 1.25 3.81 1.32 1.51 2.83
NO NAME CHANGES **AC COPPLEMENT CH CATEGORY OTAL EXPENSES OTAL EXPENSES ETURNS TC LAND, LA NNUAL CAPITAL ACHINERY LABOR RR IGATION MATER MACHINE MACHINE MACHINE MACHINE CO RACTOR(2) RR IGATION MATER MACHINE MACHINE OD WEEDER 5 MEEP AYND RILL MOFFERT 6 PRAYER 7 RALEGER 7 RALEGE	HAVE BE HANGES HUNIT ACRE ACRE BOR, CA DOL. HR. HR. HR. 1NCH 1DE 2 4 9 0 0 11 4 4 9 9	O. POUN EN STOR AVE BE MONTH JJ 3- 0- LABOR 0- 0- 0- 10-10-10-10-10-10-10-10-10-10-10-10-10-1	DRED WI BEN STORE	TH THI RED WI MARY O 68 .00 .0 .0 .0 .0 .0 .0 .0 IXED A UR. 04 04 04 04 04 04 06 07 07	S BUDG TH THI F RECE MAR 2.00 1.61 0.40 S BY M 0.0 0.16 3.00 ND VAR TAX 0.11 0.16 0.10 0.10 0.10 0.10	ET* (S BUDG IPTS A APR 0.0 1.61 AD, RI 0.27 IONTH 0.0 0.16 0.16 3.00 IABLE TOTA	0.0 642 0.0 643 0.0 642 0.0 642 0.42 0.42 0.642 0.642 0.77 1.93 0.77	JUN 112.7 37.2 10 MANA 0.0 0.6 0.1 0.7 3.0 PER HO D. REP 0.0 0.0	5 0 8 11. GEMEN 10. 1 0.6 6 0.7 7 0. WR AIR 50 72 21 78 44 11.	.00 4 FUEL 1.04 0.0 0.0 0.0	.0 .85 55	0.0 5.48 4.11 0.22 0.0 0.22 0.0 0.16 0.22 0.0 0.0	112.32 16.95 11.30 0.0 0.21 0.21 4.00 TOT VARIA 1.66 2.4 0.2 0.7 0.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	3.80 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.60 0.58 1.24	167/ 11 00 00	24 96 14 4 77 THE 1.00 1.00 0.09 0.26 0.30	1.07 9.82 1.25 3.81 1.32 1.51 2.83
**NO NAME CHANGES **AC COPPLEMENT CH CATEGORY OTAL RECEIPTS OTAL EXPENSES ETURNS TC LAND, LA NNUAL CAPITAL ACHINERY LABOR RR IGATION LABOR OTAL LABOR RR IGATION MATER MACHINE RACTOR(4) OO WEEDER STELL MOFFERT PRAYER TILL MOFFERT PRAYER TUTIBEDDER PLINT OF	HAVE BE HANGES H UNIT ACRE ACRE BOR, CA DOL. HR. HR. INCH	MONTH JA 3. C.	RED WILL STORM TO STO	TH THE MARY OF T	S BUDG TH THI F RECE MAR 2.00 1.61 0.16 0.16 3.00 TAX 0.11 0.16 0.10 0.11 0.10 0.11 0.10	S BUDG IPTS A APR 0.0 1AD, RI 0.27 ONTH 0.16 0.16 3.00 IABLE TOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JUN 112.7 37.2 10 MANA 0.0 0.6 0.1 0.7 3.0 PER HO D. REP 0.0 0.0	5 0.8 11. GEMEN 10.1 1 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0 85 	0.0 5.48 4.11 0.22 0.0 0.22 0.0 0.16 0.22 0.0 0.0 0.0	112.32 16.95 11.30 0.0 0.21 0.21 4.00 TOT VARIA 1.6 2.4 4.0.2 0.7 0.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0 8LE 9 4 1	0.0 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.60 0.58 1.24 0.31	16.7	24 99 14 14 24 7T I ME 1.00 1.00 0.09 0.26 0.18 0.15	1.07 9.82 1.25 3.81 1.32 1.51 2.83
NO NAME CHANGES **AC COPPLEMENT CH CATECORY OTAL EXPENSES ETURNS TC LAND, LA NNUAL CAPITAL ACHINERY LABOR RR IGATION MATER MACHINE MACHINE MACHINE MACHINE CO MACTOR(2) RACTOR(2) RACTOR(3)	HAVE BE HANGES H UNIT ACRE ACRE BOR, CA DOL. HR. HR. HR. 1NCH DE 2 4 7 70	MACHINER STORM	RED WILLY SUMMIN FROM 100 00 00 00 00 00 00 00 00 00 00 00 00	TH THI RED WI MARY O EB .OO NERY, .O IXED A UR. OO OO OO OO OO OO OO OO OO O	S BUDG TH THI F RECE MAR 2.00 1.61 0.40 0.40 0.16 0.16 3.00 ND VAR TAX 0.11 0.10 0.10 0.10 0.11 0.01	ET* IS BUDG IPTS A APR 0.0 1.61 AD, RI 0.27 IONTH 0.0 0.16 0.16 3.00 IABLE IOTA	0.36 0.042 0.42 0.42 0.42 0.42 8.00 COSTS L FIXE 0.88 1.27 0.93 0.77	JUN 112.7 37.2 ID MANA 0.0 0.6 0.1 0.7 3.0 PER HOD D. Q. 0.0 0.0	5 0.8 11. GEMEN 10. 10. 66 0.7 0. 4 UR AIR 550 72 278 44 11. 77 78	.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00		0.0 5.48 4.11 0.22 0.0 0.22 0.0 0.16 0.22 0.0 0.0 0.0	112.32 16.95 11.30 0.0 0.21 0.21 4.00 TOT VAR 1.6 2.4 0.2 0.7 0.4 0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.8 4 1.8 4.1 7.8	3.80 0.0 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.60 0.58	16. / 1 1 0 0 0 0	24 90 14 4 4 7TIME 1.00 1.00 0.26 0.18 0.30 0.30	1.07 9.82 1.25 3.81 1.32 1.51 2.83
NO NAME CHANGES **AC COPPLEMENT CH CATECORY OTAL EXPENSES OTAL EXPENSES ETURNS TC LAND, LA NNUAL CAPITAL ACHINERY LABOR RR IGATION LABOR RR IGATION MATER MACHINE MACHINE ACTOR(1) RACTOR(2) RACTOR(1) SHEEP AYHO RILL MO/FERT FRAYER ULTIBEDDER PLNT 6 MEEP AYHO MEEP AYHO 9 MEEP AYHO 9 MEEP AYHO	HAVE BE HANGES H UNIT ACRE ACRE BOR, CA DOL. HR. HR. HR. 1NCH DE 2 4 7 70	MONTH JA 3. C.	RED WILLY SUMMIN FROM 100 00 00 00 00 00 00 00 00 00 00 00 00	TH THE MARY OF T	S BUDG TH THI F RECE MAR 2.00 1.61 0.16 0.16 3.00 TAX 0.11 0.16 0.10 0.11 0.10 0.11 0.10	ET* IS BUDG IPTS A APR 0.0 1.61 AD, RI 0.27 IONTH 0.0 0.16 0.16 3.00 IABLE IOTA	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JUN 112.7 37.2 10 MANA 0.0 0.6 0.1 0.7 3.0 PER HO D. REP 0.0 0.0	5 0.8 11. GEMEN 10. 10. 66 0.7 0. 4 UR AIR 550 72 278 44 11. 77 78	.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00		0.0 5.48 4.11 0.22 0.0 0.22 0.0 0.16 0.22 0.0 0.0 0.0	112.32 16.95 11.30 0.0 0.21 0.21 4.00 TOT VARIA 1.6 2.4 4.0.2 0.7 0.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.8 4 1.8 4.1 7.8	0.0 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.60 0.58 1.24 0.31	16. / 1 1 0 0 0 0	24 99 14 14 24 7T I ME 1.00 1.00 0.09 0.26 0.18 0.15	1.07 9.82 1.25 3.81 1.32 1.51 2.83
**NO NAME CHANGES **AC COPPLEMENT CH CATEGORY OTAL EXPENSES CTURNS TC LAND, LA NNUAL CAPITAL MACHINERY LABOR GTAL LABOR RR IGATION LABOR GTAL LABOR MACHINE MACHINE MACHINE CO MEDIA MACHINE MACHINE CO MEDIA MACHINE CO MEDIA MACHINE MACHINE CO MACTOR(4) MACHINE CO MEDIA MACHINE CO MACTOR(2) MACTOR(4) MACHINE MACHINE CO MACTOR(4) MACHINE MACHINE CO MACTOR(4) MACHINE MACHINE CO MACTOR(4) MACHINE MAC	HAVE BE HANGES H UNIT ACRE ACRE BOR, CA DOL. HR. HR. HR. 1NCH DE 2 4 9 0 1 1 ITEM NO. D	MONTH JACON CO.	DRED WI I STOD WILLY SUMMIN F 1880 2 2 0 MACHINE STOD MACHINE SUMMIN F 1880 2 2 0 MACHINE SUMMIN F 1880 2 2 0 MACHINE SUMMIN F 1880 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH THI IRED MI MARY V C C C C C C C C C C C C C C C C C C	S BUDG FRECE O. 1.6 I	IS BUDGE IPTS A APR O-0 1.61 APR 0-0 27 IONTH 0-0 0-16 3-00 IABLE FUEL,	ND EXF MAY 0.0 0.34 0.0 0.42 0.42 0.42 0.42 0.93 0.77 0.88 0.77 0.89	JUN 112.7 37.2 ID MANA 0.0 0.6 0.1 0.7 3.0 PER HOD D. Q. 0.0 0.0	5 0 0 11 10 10 10 10 10 10 10 10 10 10 10	.80 19 .82 16 .11 0 .21 0 .69 0 .00 4 FUEL 1.04 1.49 0.0 0.0 0.0 0.0 0.0 0.0		0.0 5.48 4.11 0.22 0.0 0.22 0.0 0.16 0.22 0.0 0.0 0.0	112.32 16.95 11.30 0.0 0.21 0.21 4.00 TOT VAR 1.6 2.4 0.2 0.7 0.4 0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.8 4 1.8 4.1 7.8	3.80 0.0 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.60 0.58	16. / 1 1 0 0 0 0	24 90 14 4 4 7TIME 1.00 1.00 0.26 0.18 0.30 0.30	1.07 9.82 1.25 3.81 1.32 1.51 2.83
NO NAME CHANGES *AC COPPLEMENT CH CATEGORY COTAL EXPENSES COTAL EXPENSES CETURNS TC LAND, LA CANNUAL CAPITAL **ACHINERY LABOR COTAL LA	HAVE BE (ANGES H UNIT ACRE ACRE BOR, CA DOL. HR. HR. INCH INCH ITEN NO. D	O POUN EN STG AVE BE MONTH J J J J J J J J J J J J J J J J J J J	IREN STORE WILL STORE	TH THI IRED MI MARY 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S 8U06 TH THI F RECE MAR 1.61 OVERHE 0.40 S BY M 0.16 G.16 3.00 ND VAR TAX TAX 0.11 0.16 0.10 0.11 0.12 0.05 0.13 0.11 0.14 0.10 0.11 0.14 0.16 0.10 0.11 0.14 0.16 0.10 0.11 0.14 0.16 0.10 0.11 0.14 0.16 0.10 0.11 0.12 0.05 0.13 0.11 0.12 0.05 0.13 0.11 0.12 0.05 0.13 0.11 0.12 0.05	S BUDGE S B	ND EXF MAY 0.0 0.4.3(3.5K, AM 0.36K, AM 0.42 0.42 0.42 0.42 0.42 0.42 0.42 0.42	JUN 112-7 37-22D HANA 0 0.0 0.6 0.1 0.7 3.0 PER HO D REP 0.0 0.0 0.0 0.0	10.0 4.1 UR ATR 177 78 444 117 778 444 117 70 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.3 11 0.0 0.	80 19 10 82 16 11 00 21 00 40 4 FUEL 1.04 1.49 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0 5.48 4.11 0.22 0.0 0.22 0.0 0.16 0.22 0.0 0.0 0.0	112.32 16.95 11.30 0.0 0.21 0.21 4.00 TOT VAR 1.6 2.4 0.2 0.7 0.4 0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.8 4 1.8 4.1 7.8	3.80 0.0 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.60 0.58	16. / 1 1 0 0 0 0	24 90 14 4 4 7TIME 1.00 1.00 0.26 0.18 0.30 0.30	1.07 9.82 1.25 3.81 1.32 1.51 2.83
NO NAME CHANGES *AC COPPLEMENT CH CATEGORY OTAL RECEIPTS OTAL EXPENSES RETURNS TO LAND, LA NANUAL CAPITAL **ACHINERY LABOR RR IGATION LABOR OTAL LABOR RR IGATION MATER MACHINE CO RACTOR(4) 100 MEDDER STALL MO/FERT 6 PRAYER ULTIBEDDER PLNT 6 PRAYER ULTIBEDDER TILL 5 OPERATION OPERATION OD MEDDER OPERATION OPERATION OD MEDDER OPERATION OPERATION OD MEDDER OD MEDDER OPERATION OD MEDDER OPERATION OD MEDDER OD MEDDER OPERATION OD MEDDER OD ME	HAVE BE HANGES H UNIT ACRE ACRE BOR. CA DOL. HR. HR. HR. 1NCH INCH IITEN NO. D 1 ITEN NO. D	O POUN EN STO AVE BE MONTH 3. 0. LABOR 0. LABOR 0. 0. MACHI DEPR 1.055 0.400 0.603 0.694 ATE C	DRED WI I SEN STOD I S	TH THI IRED MI MARAY OF COMMENT O	S 8UDG TH THI F RECE MAR 2.00 0.40 0.40 0.16 3.00 ND VAR TAX 0.11 0.12 0.12 0.13 0.00 0.10 0.10 0.10 0.10 0.10 0.10	S BUDGE S BUDG	ND EXI MAY 0.00 4.33 SK, AA 0.36 0.042 0.42 8.00 0.42 0.42 0.42 0.42 0.42 0.43 0.43 0.73 0.47 0.80	JUN 112-7 37-22D HANA 0 0.0 0.6 0.1 0.7 3.0 PER HO D REP 0.0 0.0 0.0 0.0	5 0.16 GEMEN 10.06 GEMEN 10.06 GEMEN 10.06 GEMEN 10.06 GEMEN 10.07	.80 19 .82 16 .11 0 .21 0 .69 0 .00 4 FUEL 1.04 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0 5.48 4.11 0.22 0.0 0.22 0.0 0.16 0.22 0.0 0.0 0.0	112.32 16.95 11.30 0.0 0.21 0.21 4.00 TOT VAR 1.6 2.4 0.2 0.7 0.4 0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.8 4 1.8 4.1 7.8	3.80 0.0 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.60 0.58	16. / 1 1 0 0 0 0	24 90 14 4 4 7TIME 1.00 1.00 0.26 0.18 0.30 0.30	1.07 9.82 1.25 3.81 1.32 1.51 2.83
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***NO NAME CHANGES ***AC COPPLEMENT CH CATEGORY OTAL RECEIPTS OTAL EXPENSES CETURNS TC LAND, LA NANUAL CAPITAL **ACHINERY LABOR RR IGATION LABOR "OTAL LABOR RR IGATION MATER MACHINE CORACTOR(4) 100 WEEDER 5 PAPER VILL MO/FERT 6 PRAYER UNITIBEDDER TILL 5 OPERATION ODERATION	HAVE BE HANGES H UNIT ACRE ACRE BOR. CA DOL. HR. HR. HR. 1NCH INCH ITEN NO. D 4,59 J 4,90 A,59 J 4,90 A,59 J 4,90 A	O POUN EN STG AVE BE MONTH 3. 0. LABOR 0. LABOR 0. 0. MACHI DEPR 1.055 0.400 0.63 ATE C	DRED WI I STORE WILL S	TH THI IRED MI IMARY V U CEB MI IMARY V U CEB MI IMARY V U CEB MI IMARY MI	S 8UDG TH THI F RECE MAR 2.00 0.40 0.40 0.16 3.00 ND VAR TAX 0.116 0.10 0.10 0.10 0.10 0.10 0.10 0.1	S BUDGE S BUDG	ND EXI MAY 0.00 4.33 SK, AA 0.36 0.042 0.42 8.00 0.42 0.42 0.42 0.42 0.42 0.43 0.43 0.73 0.47 0.80	JUN 112-7 37-22D HANA 0 0.0 0.6 0.1 0.7 3.0 PER HO D REP 0.0 0.0 0.0 0.0	5 0 11.1 GEMEN 10.1 1.0 0.4 1.1 1.0 0.4 1.1 1.1 1.7 7.2 2.1 7.8 4.4 1.1 1.7 7.7 7.9 5.0 7.1 1.0 0.3 0.7 1.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.0 5.48 4.11 0.22 0.0 0.22 0.0 0.16 0.22 0.0 0.0 0.0	112.32 16.95 11.30 0.0 0.21 0.21 4.00 TOT VAR 1.6 2.4 0.2 0.7 0.4 0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.8 4 1.8 4.1 7.8	3.80 0.0 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.60 0.58	16. / 1 1 0 0 0 0	24 90 14 4 4 7TIME 1.00 1.00 0.26 0.18 0.30 0.30	1.07 9.82 1.25 3.81 1.32 1.51 2.83
CATEGORY CATEGORY COTAL EXCEIPTS COTAL EXPENSES NETURNS TO LAND, LA CAPITAL MACHINERY LABOR RR IGATION LABOR COTAL LABOR RR IGATION MATER MACHINE MACHINE CORRECTOR(4) CONTROL SAME COTAL LABOR COTAL	HAVE BE HANGES H UNIT ACRE ACRE BOR. CA DOL. HR. HR. HR. 1NCH INCH ITEN NO. D 4.59 J 4.40 4.59 J 4.51 A.90 A.4.61 S J 4.61 S J	O POUN EN STG AVE BE MONTH 3. 0. LABOR 0. LABOR 0. 0. MACHI DEPR 1.05 0.40 0.63 0.40 4.05 0.40 0.69 ATE C ULL 1 ULL 1 UK 1	DRED WIR STORM STO	TH THI IREO MI IMARY V U CEB MI IMARY MI I	S 8U06 TH THI F RECE MAR 2.00 0.40 0.40 0.16 3.00 ND VAR TAX 0.11 0.10 0.10 0.10 0.10 0.10 0.10 0.1	S BUDGE S BUDG	ND EXIST MAY 0.00 0.42 0.43 0.45 0.42 0.42 0.42 0.42 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.47	JUN 112-7 37-22D HANA 0 0.0 0.6 0.1 0.7 3.0 PER HO D REP 0.0 0.0 0.0 0.0	10.00 4.00 11.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 1	0 0 0 0 0 19 7 7 8 2 16 6 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.0 5.48 4.11 0.22 0.0 0.22 0.0 0.16 0.22 0.0 0.0 0.0	112.32 16.95 11.30 0.0 0.21 0.21 4.00 TOT VAR 1.6 2.4 0.2 0.7 0.4 0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.8 4 1.8 4.1 7.8	3.80 0.0 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.60 0.58	16. / 1 1 0 0 0 0	24 90 14 4 4 7TIME 1.00 1.00 0.26 0.18 0.30 0.30	1.07 9.82 1.25 3.81 1.32 1.51 2.83
POPHO NAME CHANGES POPHAC COPPLEMENT CH CATEGORY TOTAL EXPENSES OTAL EXPENSES OTAL EXPENSES RETURNS TO LAND, LA BANNUAL CAPITAL MACHINERY LABOR FOR IGHT ON	HAVE BE IANGES H UNIT ACRE ACRE BOR, CA DOL. HR. HR. HR. 1NCH INCH IITEN NO. D 1.1 1.7 1.0 1.1 1.1 1.1 1.1 1.1	O POUN EN STG AVE BE MONTH Ja- 3- 0- 1- 0- 1- 1- 0- 1- 1- 0- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	DRED WIE STOD WELLY SUMMIN F 880 2 20 00 00 00 00 00 00 00 00 00 00 00	TH THI THI THI THI THI THI THI THI THI T	S BUDG TH THI F RECE MAR 2.00 0.40 S BY M 0.16 3.00 ND YARR 0.11 0.21 0.01 0.10 0.10 0.10 0.10 0.10	S BUDGE S BUDG	ND EXIST MAY 0.00 0.44 0.45 0.42 0.42 0.42 0.42 0.42 0.42 0.42 0.42	JUN 112-7 37-22D HANA 0 0.0 0.6 0.1 0.7 3.0 PER HO D REP 0.0 0.0 0.0 0.0	5 0 0 1 1 0 0 6 0 0 7 0 0 4 1 1 778 5 1 1 1 778 5 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.0 5.48 4.11 0.22 0.0 0.22 0.0 0.16 0.22 0.0 0.0 0.0	112.32 16.95 11.30 0.0 0.21 0.21 4.00 TOT VAR 1.6 2.4 0.2 0.7 0.4 0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.8 4 1.8 4.1 7.8	3.80 0.0 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.60 0.58	16. / 1 1 0 0 0 0	24 90 14 4 4 7TIME 1.00 1.00 0.26 0.18 0.30 0.30	1.07 9.82 1.25 3.81 1.32 1.51 2.83
NO NAME CHANGES *AC COPPLEMENT CH CATEGORY OTAL EXPENSS OTAL EXPENSES GETURNS TC LAND, LA INNUAL CAPITAL **ACHINERY LABOR RR IGATION MATER MACHINERY LABOR GTAL LABOR **RR IGATION MATER MACHINE MACHINE CO RACTOR(2) RACTOR(2) RACTOR(4) GO WEEDER PRAYER ULTIBEODER TILL S OPERATION OD WEEDER PRAYER MEEP AYDO ULTIBEODER TILL RILL MOFFERT OD WEEDER OULTIBEODER TILL RILL MOFFERT OD WEEDER OULTIBEODER TILL OULTIBEODER TILL RILL MOFFERT OD WEEDER OULTIBEODER TILL OULTIBEODER PLNT	HAVE BE IANGES H UNIT ACRE ACRE BOR, CA DOL. HR. HR. HR. 1NCH INCH IITEN NO. D 1.1 1.7 1.0 1.1 1.1 1.1 1.1 1.1	O POUN EN STG AVE BE MONTH Ja- 3- 0- 1- 0- 1- 1- 0- 1- 1- 0- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	DRED WIR STORM STO	TH THI IRED MI MAAY V O CEB CO	S 8U06 TH THI F RECE MAR 2.00 0.40 0.40 0.16 3.00 ND VAR TAX 0.11 0.10 0.10 0.10 0.10 0.10 0.10 0.1	S BUDGE S BUDG	ND EXIST MAY 0.00 0.42 0.43 0.45 0.42 0.42 0.42 0.42 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.47	JUN 112-7 37-22D HANA 0 0.0 0.6 0.1 0.7 3.0 PER HO D REP 0.0 0.0 0.0 0.0	5 0 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.0 5.48 4.11 0.22 0.0 0.22 0.0 0.16 0.22 0.0 0.0 0.0	112.32 16.95 11.30 0.0 0.21 0.21 4.00 TOT VAR 1.6 2.4 0.2 0.7 0.4 0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.8 4 1.8 4.1 7.8	3.80 0.0 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.60 0.58	16. / 1 1 0 0 0 0	24 90 14 4 4 7TIME 1.00 1.00 0.26 0.18 0.30 0.30	1.07 9.82 1.25 3.81 1.32 1.51 2.83

TABLE LVII

REDUCED TILLAGE WHEAT AND SUDAN HAY DOUBLE CROP ON CLAY LOAM SOIL WITH SURFACE IRRIGATION

CATEGORY	UNITS	PRICE	QUANTITY	VALUE
PROCUCTION:				
WHEAT PASTURE	AUMS	10.000	5.250	52. 50
SUDAN	TONS	22.000	3.500	77.00
TOTAL RECEIPTS				129.50
OPERATING INPUTS:				,
SUDAN SEED	LBS.	0.270	10.000	2.70
NITROGEN	LBS.	0.140	100.000	14.00
HERBIC IDE	LBS.	8.000	0.500	4.00
SWATHING	ACRE	3.160	1.000 105.000	3.16
BALER	BL .	0.280	105.000	29.40
BALE-LOADER	BL.	0.150	105,000	15.75
NITREGEN	LBS.	0.140	80.000	11.20
WHEAT SEED	BU.	5.000	1.000	5.00
TRACTOR FUEL COST	ACRE			1.31
TRACT REPAIR COST	ACR E			0. 63
TRACTOR LUBE COST	ACRE		•	0.20
EQUIP REPAIR COST	ACRE			0.46
IRRIG FUEL COST	ACRE			8. 60
IRRIG LUBE COST	ACRE			1.94
IRRIG REPAIR COST	ACRE			6.52
TOTAL CPERATING COST				1 04. 87
RETURNS TO LAND, LABOR, CAPITAL, MACHINER CVERHEAD, RISK, AND MANAGEMENT				24. 63
CAPITAL COST:				
ANNUAL OPERATING CAPITAL		0.100	16.109	1.61
TRACTOR INVESTMENT	•	. 0.100	16.109 9.327	1.61 0.93
ECUIPMENT INVESTMENT	*	0.100	5.978	0. 60
IRRIGATION SYSTEM INVESTMENT		0.100	5.978 101.142	10.11
TOTAL INTEREST CHARGE				13.26
RETURNS TO LAND, LABOR, MACHINERY, OVERHEAD, RISK AND MANAGEMENT	10 tips any 420 Chicago Apricaly and also day des			11.38
OWNERSHIP COST: (DEPRECIATION.				
TAXES, INSURANCE)				
TRACTOR	DOL.			1.11
EQUIPMENT	DOL.			0.95
IRRIGATION SYSTEM	DOL.			18.80
TOTAL CWNERSHIP COST	•			20.87
RETURNS TO LAND, LABOR, CVERHEAD,				-9.49
LABCR COST:				
MACHINERY LABOR	HR.	3.000	1.076	3.23
IRRIGATION LABOR	HR. HR.		1.872	
TOTAL LABOR COST				8. 84
RETURNS TO LAND, OVERHEAD, RISK AND MANAGEMENT		· · · · · · · · · · · · · · · · · · · 		-18.33

PANHANDLE ENERGY BUDGETS HERBICIDE FOR SUDAN 2,4-D

ENTERPRISE 76 AREA AND COUNTY 10 DETAIL 00 IRIG. LEVEL 6 LAND CLASS 1 GRAZING 6 MACH. COMP. 1 IRIG. SYSTEM 5 PRICE VECT 1 INDIV. NUMBER 0 ANNUAL CAPITAL MONTH: 9 DATE PRINTED: 03/05/75

	_		_						_									
INE	JAN	FEB	HAR	APR	MAY	MUL	JUL	AUG	SEP.	10 OCT	NOA 11	12 DEC	PRICE	NE IGHT			17 TYPE	18 CONT
RODUCT ION					NUMBE	R OF	UNITS								COOL	COUL		
1 WHEAT PASTURE 2 SUDAN	0.25	0.25	0.75 0.0	0.90 0.0	1.40	0.0	0.0	0.0 3.50	0.0	0.0	0.75 0.0	0.75	10.000	0.0	10. 3.	151. 87.	2. 2.	o. o.
PERATING INPUTS					RAT	E/UNI	T						PRICE	NUMBER	UNIT		TYPE	CONT
1 SUDAN SEED	0.0	0.0	0.0	0.0	0.,0	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.270	0.0		187.	3.	0.
L2 NITROGEN	0.0	0.0	0.0	0.0	100.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.140	0.0	12.	211.	3.	0.
13 FERBICIDE	0.0		0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	8.000	0.0		250.	3.	0.
14 SWATHING 15 BALER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	3.160	0.0		392. 388.	3.	0.
16 EALE-LOADER	0.0	0.0	0.0	0.0	0.0	0.0		05.00	0.0	0.0	0.0	0.0	0.280	0.0		389.	3.	٥.
17 NITROGEN		0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.00	0.0	0.0	0.0	0.140	0.0		211.	3.	ő.
8 WHEAT SEED		0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	5.000	0.0		176.	3.	٥.
MACHINERY REQUIREMEN	NTS					TIMES	SOVER						XXXXX	XXXXX		MACH	TYPE	CONT
88 DRY FERT SPREAD		0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	71.	4.	0.
9 CULTIBEDDER PLNT		0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	67.	4.	٥.
O SPRAYER	0.0	0.0	0.0	0.0	0.0	1.00		0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.	74. 95.	4.	٥.
1 CULTIBEDDER AYHD 2 DRILL WO/FERT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	4.	61.	4.	0.
T SHIEL WONTER!	0.0	3.0	•••	0.0		٠.٠			1.00		0.00	•••	•••	•••	7.0	01.	7	••
49 ACIN IRRIG WATER	0.0	0.0	4.00	4.00	4.00	4.00	8.00	4.00	4.00	4.00	0.0	0.0						
PANHANDLE	ENEDCY	BILDER	:T C										MACUI	NERY CO	MDI EMI	EMT	1	
FERBIC IDE								4						MENT CO			ì	
	* *																	
NO NAME CHANGES	HAVE BE	EN STO	RED MI	TH TH	IS BUDG	ET												
	5.3							•		•								
	5.3	AVE BE	EN STO	RED W		S BUDG	GET***	ENSES JUN	· J	, 	AUG	SEP	DCT	NOV	DEC		т	DT AL
**************************************	UNIT ACRE	NONTH	LY SUN	MARY I	ITH THI OF RECE MAR 7.50	IPTS APR	GET*** AND EXF	JUN 0.0	0.	.0 7	7.00	0.0	0.0	7.50	7.50		12	9.50
CATEGORY COTAL RECEIPTS CTAL EXPENSES	UNIT ACRE ACRE	MONTH JA 2.	ILY SUN	MARY FEB	OF RECE MAR 7.50 1.90	IPTS APR 9.00	GET*** AND EXP MAY 16.00	JUN 0.0	72 3	.0 7 .79 5	7.00						12 10	9.50 4.87
CATEGORY COTAL RECEIPTS COTAL REPENSES	UNIT ACRE ACRE	MONTH JA 2.	ILY SUN	MARY FEB	OF RECE MAR 7.50 1.90	IPTS APR 9.00	GET*** AND EXP MAY 16.00	JUN 0.0	72 3	.0 7 .79 5	7.00	0.0	0.0	7.50	7.50		12 10	9.50
CATEGORY CATEGORY COTAL RECEIPTS CTAL EXPENSES RETURNS TO LAND, LA	UNIT ACRE ACRE	MONTH JA 2.	EN STO LY SUR IN F 50 2 0 0 MACH	MARY FEB	OF RECE MAR 7.50 1.90	IPTS APR 9.00	GET*** AND EXP MAY 16.00	JUN 0.0 7 9.7 D MANA	O O	.0 7 .79 5	7.00	0.0	0.0	7.50	7.50		12 10 2	9.50 4.87
CATEGORY COTAL RECEIPTS COTAL RECEIPTS COTAL EXPENSES RETURNS TO LAND, LA	UNIT ACRE ACRE BOR, CA	MONTH JA 2. 0. PITAL,	LY SUN ILY SUN ISO 2 O MACHI	IMARY (FEB 2.50).0 (NERY.	OF RECE MAR 7.50 1.90 OVERHE 0.95	S BUDG APR 9.00 1.90 AD, R:	GET*** AND EXP MAY 16.00 16.17 ISK, AN	JUN 0.0 7 9.1 10 MANA	0 0 . 72 3 . AGEMENT	.0 7 79 5 T	7.00 0.21 4.18	0.0	1.74	7.50 0.0	7.50 0.0		12 10 2	9.50 4.87 4.63 6.11
CATEGORY CATEGORY COTAL RECEIPTS COTAL EXPENSES RETURNS TO LAND, LA	UNIT ACRE ACRE BOR, CA	MONTH JA 2. 0. PITAL, 0.	LY SUN IN 5 50 2 0 MACH	MARY FEB50 .0 (NERY,	ITH THI OF RECE MAR 7.50 1.90 OVERHE 0.95	S BUDG IPTS / APR 9.00 1.90 AD, R: 0.79 ONTH 0.0	GET*** AND EXP MAY 16.00 16.17 ISK, AN	JUN 0.0 7 9.7 10 MANA 2.4	72 3.4 AGEMENT	.0 7 .79 5 r .63	7.00 0.21 4.18	0.0	1.74	7.50 0.0	0.0		12 10 2	9.50 4.87 4.63 6.11
CATEGORY CATEGORY COTAL RECEIPTS COTAL EXPENSES RETURNS TO LAND, LA RANNUAL CAPITAL MACHINERY LABOR RERIGATION LABOR	UNIT ACRE ACRE BOR, CA	MONTH JA 2. 0. PITAL,	EEN STO	IMARY (FEB 2.50).0 (NERY.	OF RECE MAR 7.50 1.90 OVERHE 0.95	S BUDG APR 9.00 1.90 AD, R:	GET*** AND EXP MAY 16.00 16.17 ISK, AN	JUN 0.0 7 9.1 80 MANA 2.4	72 3.4 AGEMENT 43 0.	.63 .0 .63	7.00 0.21 4.18	0.0	1.74	7.50 0.0	7.50 0.0		12 10 2	9.50 4.87 4.63 6.11
CATEGORY CATEGORY COTAL RECEIPTS CITAL EXPENSES LETURNS TO LAND, LA INNUAL CAPITAL IACHINERY LABOR OTAL LABOR OTAL LABOR	UNIT ACRE ACRE BOR, CA	MONTH JA O. PITAL, O. LABOR	MLY SUM NO 50 2 0.0 C MACHI	MARY FEB 8.50 0 (NERY,	OF RECE MAR 7.50 1.90 OVERHE 0.95 TS BY N 0.0	S BUDG IPTS / APR 9.00 1.90 AD, R: 0.79 ONTH 0.0 0.21	AND EXP MAY 16.00 16.17 ISK, AN	JUN 0.07 7 9.17 9 2.4 0.5 0.5	72 3. AGEMENT 43 0.	63 0 42	7.00 0.21 4.18 0.0 0.21	0.0 19.30 0.0 0.41 0.21	0.0 1.90 1.74	7.50 0.0 0.0	7.50 0.0 0.0		12 100 2	9.50 4.87 4.63 6.11 1.08 1.87
CATEGORY CATEGORY OTAL RECEIPTS CTAL EXPENSES TETURNS TO LAND, LA NANUAL CAPITAL TACHINERY LABOR OTAL LABOR OTAL LABOR OTAL LABOR OTAL LABOR OTAL LABOR	UNIT ACRE ACRE BOR, CA	MONTH JA 2. 0. PITAL, 0. LABOR 0. 0.	EEN STORMEN SURFINE SOURCE MACHINE SOURCE SO	MARY FEB 2.50 3.0 INERY, 0.0 IREMEN 3.0 3.0 IREMEN 3.0 3.0 IREMEN 3.0	ITH THI OF RECE MAR 7.50 1.90 OVERHE 0.95 TS BY M 0.0 0.21 0.21 4.00 AND VAR	S BUDG APR 9.00 1.90 AD, R: 0.79 ONTH 0.0 0.21 4.00	GET*** AND EXP HAY 16-00 16-17 ISK, AN 5-39 0-11 0-21 0-32 4-00	JUN 0.00 7 9.17 9.17 9.17 9.17 9.17 9.17 9.17 9.	72 3-4 72 3-4 72 3-4 743 0-4 755 0-2 76 0-4 76 0-4 76 0-4	.0 79 5 T .63 .0 .42 .42	7.00 0.21 4.18 0.0 0.21 0.21	0.0 19.30 0.0 0.41 0.21 0.62	0.0 1.90 1.74 0.0 0.21 0.21 4.00	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0		12 100 2	9.50 4.87 4.63 6.11
CATEGORY CATEGORY COTAL RECEIPTS CITAL EXPENSES LETURNS TO LAND, LA ANNUAL CAPITAL AACHINERY LABOR OTAL LABOR CARIGATION WATER MACHINE CC	UNIT ACRE ACRE BOR. CA	MONTH JA 2. PITAL, 0. LABOR 0. 0. MACHI	LY SUMLY SUM	MARY FEB 0.50 0.0 INERY, 0.0 IREMEN 0.0 IREM	ITH THI OF RECE MAR 7.50 1.90 OVERHE 0.95 TS 8Y N 0.0 0.21 0.21 4.00 AND VAR	S BUDG IPTS / APR 9.00 1.90 AD, R: 0.79 ONTH 0.0 0.21 0.21 4.00 IABLE TOT/	GET*** AND EXP MAY 16-00 16-17 15K, AN 5-39 0-11 0-21 0-32 4-00 COSTS AL FIXE	JUN 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	72 3.4 72 3.4 73 0.4 743 0.4 755 0.6 76 0.4 76 0.4 776 0.4 78	.0 79 5 7 .09 5 .0 .42 .42 .00	7.00 0.21 4.18 0.0 0.21 0.21	0.0 19.30 0.0 0.41 0.21 0.62 4.00	0.0 1.90 1.74 0.0 0.21 0.21 4.00	7.50 0.0 0.0 0.0 0.0 0.0	7.50 0.0 0.0 0.0 0.0 0.0		12 10 2 1	9.50 4.87 4.63 6.11
CATEGORY CATEGORY COTAL RECEIPTS CTAL EXPENSES RETURNS TO LAND, LA NANUAL CAPITAL MACHINERY LABOR GTAL LABOR COTAL	UNIT ACRE ACRE BOR, CA DOL. HR. HR. SHR.	MONTH JA 2. 0. PITAL, 0. LABOR 0. 0. MAGHI DEPR 0.73	REQUI	MARY FEB 2.50 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	ITH THI OF RECE MAR 7.50 1.90 OVERHE 0.95 TS 5Y N 0.0 0.21 0.21 4.00 AND VAR TAX 0.11	S BUDG IPTS / APR 9.00 1.90 AD, R: 0.79 ONTH 0.0 0.21 0.21 4.00 IABLE TOT/	GET*** AND EXP MAY 16-00 16-17 15K, AN 5-39 0-11 0-21 0-32 4-00 COSTS AL FIXE	JUN 0.00 7 9.11 MANA 2 2.44 0.5 0.5 0.11 0.11 0.11 0.11 0.11 0.11 0	072 3.43 0.43 0.43 0.44 0.44 0.44 0.44 0.44	.0 79 5 7 .09 5 .0 .42 .42 .00 FUE	7.00 0.21 4.18 0.0 0.21 0.21 4.00	0.0 19.30 0.0 0.41 0.21 0.62 4.00	0.0 1.90 1.74 0.0 0.21 0.21 4.00	7.50 0.0 0.0 0.0 0.0 0.0	7.50 0.0 0.0 0.0 0.0 0.0 0.0	1	12 10 2 1 1	9.50 4.87 4.63 6.11
CATEGORY CATEGORY COTAL RECEIPTS CITAL EXPENSES LETURNS TO LAND, LA ANNUAL CAPITAL AACHINERY LABOR OTAL LABOR CARIGATION WATER PACHINE CRACTOR(2) FRACTOR(2) FRACTOR(4)	UNIT ACRE ACRE BOR, CA DOL. HR., HR., SR., INCH	MONTH JA 2. PITAL, 0. LABOR 0. 0. MACHI	LY SUM NN F 50 C O C MACHI O C O C O C O C O C NERY F INS	MARY FEB 0.50 0.0 INERY, 0.0 IREMEN 0.0 IREM	ITH THI OF RECE MAR 7.50 1.90 OVERHE 0.95 TS 8Y N 0.0 0.21 0.21 4.00 AND VAR	S BUDG IPTS APR 9.00 1.90 AD, R: 0.79 QNTH 0.0 0.21 4.00 IABLE TOT	GET*** AND EXP MAY 16-00 16-17 15K, AN 5-39 0-11 0-21 0-32 4-00 COSTS AL FIXE	JUN 0.00 7 9.17 PD MANA 2 2.44 0.5 0.2 0.10 4.00 PER HCD REFORM	72 3.4 72 3.4 73 0.4 743 0.4 755 0.6 76 0.4 76 0.4 776 0.4 78	.0 79 5 7 .63 .0 .42 .42 .42 .42 .10 .1.4	7.00 0.21 4.18 0.0 0.21 0.21 4.00	0.0 19.30 0.0 0.41 0.21 0.62 4.00	0.0 1.90 1.74 0.0 0.21 0.21 4.00 TOT VARIA 1.6	7.50 0.0 0.0 0.0 0.0 0.0	7.50 0.0 0.0 0.0 0.0 0.0 0.0	1	12 10 2 1 1 3 7TIME	9.50 4.87 4.63 6.11
CATEGORY CATEGORY COTAL RECEIPTS COTAL EXPENSES RETURNS TO LAND, LA ANNUAL CAPITAL MACHINERY LABCR GRIGATION LABOR OTAL LABCR LRR IGATION WATER PACHINE CRACTOR(2) FRACTOR(2) FRACTOR(4) FRACTOR(4) FRACTOR(4) FRACTOR(4) FRACTOR(4) FRACTOR(4)	UNIT ACRE ACRE BOR. CA DOL. HR. HR. SR.	MONTH JA O. PITAL, O. LABGR O. G. G. MACHI DEPR G. 73	REQUIDED NERY F	IMARY (FEB 2.50).0 (NERY, O.0).0 (REMEN 3.0).0 (REMEN 3.0)	OF RECE MAR 7.50 1.90 OVERHE 0.95 TS BY M 0.0 0.21 0.21 4.00 AND VAR TAX 0.11 0.11	S BUDG IPTS / APR 9.00 1.90 1.90 AD, R: 0.79 ONTH 0.0 0.21 4.00 IABLE TOT/	GET*** AND EXP MAY 16-00 16-17 ISK, AN 5-39 0-11 0-21 0-32 4-00 COSTS AL FIXE 0-88 1-27	JUN 0.00 7 9.1 10 MANA 9 2.4 1 0.5 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1 0.2 1	072 3. 72 3. 72 3. 73 0. 743 0. 755 0. 76 0. 76 0. 76 0. 76 0. 76 0. 76 0.	.0 79 5 7 .09 5 .0 .42 .42 .00 FUE	7.00 0.21 4.18 0.0 0.21 0.21 4.00	0.0 19.30 0.0 0.41 0.21 0.62 4.00	0.0 1.90 1.74 0.0 0.21 0.21 4.00	7.50 0.0 0.0 0.0 0.0 0.0	7.50 0.0 0.0 0.0 0.0 0.0 0.0	1 1 0	12 10 2 1 1	9.50 4.87 4.63 6.11
CATEGORY CATEGORY OTAL RECEIPTS CTAL EXPENSES RETURNS TO LAND, LA NANUAL CAPITAL MACHINERY LABCR MRR IGATION LABOR OTAL LABCR FACHINE CRR 1GATION WATER CRR 1GATION WATER CRACTOR(2) (RACTOR(4) MRY FERT SPREAD 7. ULITIBEDDER PLNT 6	UNIT ACRE ACRE CACRE CAC	MONTH JA 0. PITAL, 0. LABGR 0. 0. MACHI DEPR 0.73 1.05 0.68 1.24 0.40	EEN STOMAY SUMAN STORE S	INARY FEB WINARY FEB 8.50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH THI OF RECE MAR 7-50 1-90 1-90 0-95 TS 8V M 0-0 0-21 0-21 4-00 AND VAR TAX 0-11 0-16 0-08 0-13 0-01	S BUDG IPTS / APR 9.00 1.90 1.90 AD+ R: 0.79 ONTH 0.0 0.21 0.21 4.00 IABLE TOT/	GET*** AND EXP MAY 16-00 16-17 ISK, AN 5-39 0-11 0-21 0-32 4-00 COSTS AL FIXE 0-88 1-27 0-80 1-42 0-47	JUN 0.00 7 9.17 9.17 9.17 9.17 9.17 9.17 9.17 9.	0.072 3.072 3.072 3.072 3.072 3.075 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076	.0 79 5 FUE 1.0 0.0 0.0 0.0 0.0	7.00 0.21 4.18 0.0 0.21 0.21 4.00	0.0 19.30 0.0 0.41 0.21 0.62 4.00 LUB. 0.16 0.22 0.0	0.0 1.90 1.74 0.0 0.21 4.00 VARIA 1.6 2.4 4.0.2	7.50 0.0 0.0 0.0 0.0 0.0	7.50 0.0 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.51 0.82	1 0 0	12 10 2 1 1 3 7 T I M E G O l . C O 0 . C O O O O O O O O O O O O O O O O O O	9.50 4.87 4.63 6.11
CATEGORY COTAL RECEIPTS CITAL EXPENSES CITAL LABOR CITAL LABOR CITAL LABOR CITAL LABOR CITAL CATEGORY CATEGO	UNIT ACRE ACRE BOR, CA	NONTH JA 0. PITAL, 0. PITAL, 0. MACHI BEPR 0.73 1.05 0.48 1.24 0.40	REQUIDED OF THE PROPERTY OF T	IMARY (FEB) 50 (NERY, 10.0)	OF RECE MAR 7.50 1.90 0.95 TS 8Y M 0.0 0.21 0.21 4.00 AND VAR TAX 0.11 0.16 0.08 0.13 0.05 0.01	S BUDG IPTS APR 9.00 1.90 1.90 AD, R: 0.79 ONTH 0.0 0.21 0.21 4.00 IABLE TOTA	GET*** AND EXP HAY 16-00 16-17 ISK, AM 5-35 0-11 0-21 0-32 4-00 COSTS AL FIXE 0-88 1-27 0-80 1-42 0-47 1-05	JUN 0.07 9.17 9.17 9.17 9.17 9.17 9.17 9.17 9.1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.0 79 5 .0 63 .0 42 .42 .00 FUE 1.00 0.00 0.00 0.00	7.00 0.21 4.18 0.0 0.21 0.21 4.00	0.0 19.30 0.0 0.41 0.21 0.62 4.00 LUB. 0.16 0.22 0.0 0.0	0.0 1.90 0.0 0.21 0.21 4.00 TOI VARI/ 1.6. 2.4 0.2 0.1	7.50 0.0 0.0 0.0 0.0 0.0 0.0	7.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 0 0 0	12 10 2 1 1 3 7TIME 00 100 009 016	9.50 4.87 4.63 6.11
CATEGORY COTAL RECEIPTS CITAL EXPENSES CITAL LABOR CITAL LABOR CITAL LABOR CITAL LABOR CITAL CATEGORY CATEGO	UNIT ACRE ACRE BOR, CA	MONTH JA 0. PITAL, 0. LABGR 0. 0. MACHI DEPR 0.73 1.05 0.68 1.24 0.40	REQUIDED OF THE PROPERTY OF T	INARY FEB WINARY FEB 8.50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH THI OF RECE MAR 7-50 1-90 1-90 0-95 TS 8V M 0-0 0-21 0-21 4-00 AND VAR TAX 0-11 0-16 0-08 0-13 0-01	S BUDG IPTS APR 9.00 1.90 1.90 AD, R: 0.79 ONTH 0.0 0.21 0.21 4.00 IABLE TOTA	GET*** AND EXP MAY 16-00 16-17 ISK, AN 5-39 0-11 0-21 0-32 4-00 COSTS AL FIXE 0-88 1-27 0-80 1-42 0-47	JUN 0.07 9.17 9.17 9.17 9.17 9.17 9.17 9.17 9.1	0.072 3.072 3.072 3.072 3.072 3.075 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076	.0 79 5 FUE 1.0 0.0 0.0 0.0 0.0	7.00 0.21 4.18 0.0 0.21 0.21 4.00	0.0 19.30 0.0 0.41 0.21 0.62 4.00 LUB. 0.16 0.22 0.0	0.0 1.90 1.74 0.0 0.21 4.00 VARIA 1.6 2.4 4.0.2	7.50 0.0 0.0 0.0 0.0 0.0 0.0	7.50 0.0 0.0 0.0 0.0 0.0 0.0 1NT. 0.74 1.06 0.51 0.82	1 0 0 0	12 10 2 1 1 3 7 T I M E G O l . C O 0 . C O O O O O O O O O O O O O O O O O O	9.50 4.87 4.63 6.11
CATEGORY CATEGORY COTAL RECEIPTS COTAL EXPENSES ETURNS TO LAND, LA ANNUAL CAPITAL MACHINERY LABOR COTAL LABOR COTAL LABOR FRACTION LABOR FRAC	UNIT ACRE AGR. CA DOL. HR., SR. INCH DE 24	NONTH JA 2	REN STO	IRED W MARY (OF RECE MAR 7.50 1.90 0.95 TS 8Y M 0.0 0.21 0.21 4.00 AND VAR TAX 0.11 0.16 0.08 0.13 0.05 0.01	S BUDG IPTS	GET*** AND EXP MAY 16-00 16-17 ISK, AN 5-35 0-11 0-21 0-32 4-00 COSTS AL FIXE 0-88 1-27 0-80 1-42 0-47 1-05 1-93	JUN 0.07 9.11 0.00 0.00 0.00 0.00 0.00 0.00 0.00	00 8. DUR PAIP 50 72 75 76 0. DUR PAIP 50 72 77 71 71 74 75 76 77 77 77 77 77 77 77 77 77 77 77 77	.0 75 7 7 .00 .00 .00 .00 .00 .00 .00 .00 .00	7.00 0.21 4.18 0.0 0.21 0.21 4.00	0.0 19.30 0.0 0.41 0.21 0.62 4.00 LUB. 0.16 0.22 0.0 0.0	0.0 1.90 0.0 0.21 0.21 4.00 TOI VARI/ 1.6. 2.4 0.2 0.1	7.50 0.0 0.0 0.0 0.0 0.0 0.0	7.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 0 0 0	12 10 2 1 1 3 7TIME 00 100 009 016	9.50 4.87 4.63 6.11
CATEGORY CATEGORY COTAL RECEIPTS COTAL EXPENSES COTAL EXPENSES RETURNS TO LAND, LA ANNUAL CAPITAL MACHINERY LABCR MACHINERY LABCR FOR IGATION WATER PACHINE CRACTOR(2) TRACTOR(2) TRACTOR(2) TRACTOR(2) TRACTOR(2) ORY FERT SPREAD OPERATION OPERATION	UNIT ACRE BOR, CA DOL. HR. HR. HR. HR. HR. HR. HR. HR. HR. HR	MONTH JJJ 2	EEN STC/ SUBJECT OF THE STC OF TH	IMARY 1 15 16 16 16 16 16 16 16 16 16 16 16 16 16	OF RECE MAR 7.50 1.90 OVERHE 0.95 TS BY M 0.0 0.21 0.21 4.00 AND VAR TAX 0.11 0.16 0.08 0.13 0.05 0.11 0.21	S BUDG IPTS APR 9.00 AD. R: 0.79 0.40 0.21 0.21 4.00 ITABLE TOTA	DET+++ AND EXF MAY 16.007 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.17 16.	JUN 0.07 9.11 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7779 5 7 7 6-63	7.00 0.21 4.18 0.0 0.21 0.21 4.00	0.0 19.30 0.0 0.41 0.21 0.62 4.00 LUB. 0.16 0.22 0.0 0.0	0.0 1.90 0.0 0.21 0.21 4.00 TOI VARI/ 1.6. 2.4 0.2 0.1	7.50 0.0 0.0 0.0 0.0 0.0 0.0	7.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 0 0 0	12 10 2 1 1 3 7TIME 00 100 009 016	9.50 4.87 4.63 6.11
CATEGORY CATEGORY COTAL RECEIPTS FICTAL EXPENSES RETURNS TO LAND, LA ANNUAL CAPITAL MACHINERY LABOR FOR TALL LABOR FOR TALL LABOR IRR IGATION MATER PACHINE PACHINE FRACTOR(2) FRACTOR(4) FRACTOR(4) FRACTOR(4) FRACTOR(4) FRACTOR(5) FRATTOR AND CULTIBEDDER PLNT OPPERATION	UNIT ACRE BOR, CA DOL. HR. HR. SR. INCH INCH ITEM NO. D. A.71 M 4.67 J M	MONTH JJJ 2 0 0 0 0 0 0	EEN STC/ SUM 1	IMARY 15-50 (REMEN 15-50)-0 (REMEN 15-5	OF RECE MAR 7-50 1-90 OVERHE 0-95 TS BY N 0-0 0-21 0-21 4-00 AND VAR TAX 0-11 0-16 0-08 0-13 0-02 MACHINE HOURS 0-193 0-152	S BUDG IPTS i APR 9.00 1.90 AD. R: 0.79 QNTH 0.0 0.21 4.00 IABLE TOTI	GET+++ AND EXF MAY 16-001 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-01 16-0	JUN 0.07 9.11 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7779 5 7 7 63	7.00 0.21 4.18 0.0 0.21 0.21 4.00	0.0 19.30 0.0 0.41 0.21 0.62 4.00 LUB. 0.16 0.22 0.0 0.0	0.0 1.90 0.0 0.21 0.21 4.00 TOI VARI/ 1.6. 2.4 0.2 0.1	7.50 0.0 0.0 0.0 0.0 0.0 0.0	7.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 0 0 0	12 10 2 1 1 3 7TIME 00 100 009 016	9.50 4.87 4.63 6.11 1.08 1.87 2.95
CATEGORY CATEGORY TOTAL RECEIPTS ICTAL EXPENSES RETURNS TO LAND, LA ANNUAL CAPITAL MACHINERY LABCR RERIGATION LABOR IRRIGATION WATER PACHINE PACHINE CRACTOR(2) TRACTOR(2) TRACTOR(3) TRACTOR(4) DRY FERT SPREAD CULTIBEDOER PUNT OPPERATION OPP	UNIT ACRE BOR, CA DOL. HR. HR. HR. HR. HR. HR. HR. HR. HR. HR	MONTH JA	EEN STC/ SUBJECT OF THE STC OF TH	IMARY 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1	OF RECE MAR 7.50 1.90 OVERHE 0.95 TS 8Y M 0.0 0.21 0.21 4.00 AND VAR TAX 0.11 0.16 0.08 0.13 0.09 0.11 0.21	S BUDG IPTS APR 9.00 AD, R: 0.79 OND 1.90 AL, D: 1.90 IABLE TOT/	DET+++ AND EXF MAY 16.00 16.11 16.11 15.5K, Ah 5.36 0.11 0.32 4.00 COSTS 1.93 1.93 0.10 1.02 0.40 1.93	JUN 0.07 9.11 0.00 0.00 0.00 0.00 0.00 0.00 0.00	72 3.2 72 3.2 72 3.2 72 3.2 72 3.2 73 3.2 74 3.2 75 0.3 76 0.3 77 7.7 11 24 44 71 24 72 29 73 77 74 77 75 0.3 76 0.3 77 77 77 77 77 77 77 77 77 77 77 77 77 77 77 77 77 77 77	7779 5	7.00 0.21 4.18 0.0 0.21 0.21 4.00	0.0 19.30 0.0 0.41 0.21 0.62 4.00 LUB. 0.16 0.22 0.0 0.0	0.0 1.90 0.0 0.21 0.21 4.00 TOI VARI/ 1.6. 2.4 0.2 0.1	7.50 0.0 0.0 0.0 0.0 0.0 0.0	7.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 0 0 0	12 10 2 1 1 3 7TIME 00 100 009 016	9.50 4.87 4.63 6.11
TOTAL RECEIPTS TOTAL EXPENSES RETURNS TO LAND, LA ANNUAL CAPITAL MACHINERY LABCR TRRIGATION LABOR TOTAL LABCR PACHINE CRACTOR(4) TRACTOR(4) T	UNIT ACRE 60R, CA DOL. HR., 19R. INCH INCH ITEM NO. 0. 0. 4.71 M 4.67 J 1.74 4.67 J 2.74 J 4.75 S	MONTH JJ J J J J J J J J J J J J J J J J J	EEN STC/ SUM 1	RED W IMARY 15-10 (REMEN 15-10	OF RECE MAR 7-50 1-90 OVERHE 0-95 TS BY N 0-0 0-21 0-21 4-00 AND VAR TAX 0-11 0-16 0-08 0-13 0-09 0-11 0-21	S BUDG IPTS i APR 9.00 i.90 i.90 i.90 i.90 i.90 i.90 i.90	GET+++ AND EXF MAY 16-00-11 15K- Ah 5-36 0-11 0-2 0-32 4-00 COSTS AL FIXE 0-81 1-05 1-05 1-05 1-05 1-05 1-05 1-05 1-0	JUN 0.07 9.11 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0 0 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7,79 5 7 7	7.00 0.21 4.18 0.0 0.21 0.21 4.00	0.0 19.30 0.0 0.41 0.21 0.62 4.00 LUB. 0.16 0.22 0.0 0.0	0.0 1.90 0.0 0.21 0.21 4.00 TOI VARI/ 1.6. 2.4 0.2 0.1	7.50 0.0 0.0 0.0 0.0 0.0 0.0	7.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 0 0 0	12 10 2 1 1 3 7TIME 00 100 009 016	9.50 4.87 4.63 6.11
CATEGORY TOTAL RECEIPTS TCTAL EXPENSES RETURNS TO LAND, LA ANNUAL CAPITAL MACHINERY LABCR TRRIGATION LABOR TOTAL LABCR FACHINE PACHINE COTAL LABCR FACHINE COTAL LABCR FACHINE COTAL LABCR FACHINE COTAL LABCR OULTIBEDDER PLNT COLLITIBEDDER AYND OPERATION OPER	UNIT ACRE 60R, CA DOL. HR., 19R. INCH INCH ITEM NO. 0. 0. 4.71 M 4.67 J 1.74 4.67 J 2.74 J 4.75 S	MONTH JA 2	EEN STC/ SUMMACH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IMARY 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1	OF RECE MAR 7.50 1.90 OVERHE 0.95 TS 8Y M 0.0 0.21 0.21 4.00 AND VAR TAX 0.11 0.16 0.08 0.13 0.09 0.11 0.21	S BUDG IPTS APR APR	DET+++ AND EXF MAY 16.00 16.11 16.11 15.5K, Ah 5.36 0.11 0.32 4.00 COSTS 1.93 1.93 0.10 1.02 0.40 1.93	JUN 0.07 9.11 0.00 0.00 0.00 0.00 0.00 0.00 0.00	72 3.2 72 3.2 72 3.2 72 3.2 72 3.2 73 3.2 74 3.2 75 0.3 76 0.3 77 7.7 11 24 44 71 24 72 29 73 77 74 77 75 0.3 76 0.3 77 77 77 77 77 77 77 77 77 77 77 77 77 77 77 77 77 77 77	63 -00 -42 -42 -000	7.00 0.21 4.18 0.0 0.21 0.21 4.00	0.0 19.30 0.0 0.41 0.21 0.62 4.00 LUB. 0.16 0.22 0.0 0.0	0.0 1.90 0.0 0.21 0.21 4.00 TOI VARI/ 1.6. 2.4 0.2 0.1	7.50 0.0 0.0 0.0 0.0 0.0 0.0	7.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 0 0 0	12 10 2 1 1 3 7TIME 00 100 009 016	9.50 4.87 4.63 6.11

TABLE LVIII

REDUCED TILLAGE CORN SILAGE AND RYE GRAZE DOUBLE CROP ON CLAY LOAM SOIL WITH SURFACE IRRIGATION

CATEGORY	UNITS	PRICE	QUANT ITY	VALUE
DOCOUCTION				
WHEAT PASTURE	AUMS	10.000	4.100	41 -00
CCRN SILAGE	TONS	10.000 5.500	20.000	110.00
OTAL NEGLATIO				151.00
DPERATING INPUTS:			***	
NITROGEN	LBS.	0.140	80.000	11.20
RYE SEED	BU.	5.000	1.000	5.00
CGRN SEED *	LBS.	5.000 0.520	20.000	10.40
NITROGEN	LBS.	0.140 8.000 8.000 0.140	100.000	14.00
HERBICIDE	LBS.	8.000	0.250	2.00
INSECTICIDE	ACRE	8.000	1.000	8.00
	LBS.	0.140	100.000	14.00
TRACTOR FUEL COST	ACRE			2.40
TRACTOR FUEL COST	ACRE			1. 16
INACION LUBE CUSI	ACRE			0.36
	ACRE			0. 79
	ACRE			11.65
IRRIG LUBE COST	ACRE			2.25
IRRIG REPAIR COST	ACRE			10.90
TOTAL OPERATING COST		•		94.17
RETURNS TO LAND, LABOR, CAPITAL, MACHINERY, OVERHEAD, RISK, AND MANAGEMENT				56.83
CAPITAL COST:			• .	*
ANNUAL OPERATING CAPITAL		0.100	22 •253	2.23
TRACTOR INVESTMENT	•	0.100	17.053	1.71
EQUIPMENT INVESTMENT		0.100	22.253 17.053 9.187	0.92
IRRIGATION SYSTEM INVESTMENT		0.100	126.400	12.04
TOTAL INTEREST CHARGE				17. 49
RETURNS TO LAND, LABOR, MACHINERY, OVERHEAD, RISK AND MANAGEMENT				39, 34
OWNERSHIP COST: (DEPRECIATION,				
TAXES, INSURANCE)				
TRACTOR	DOL.			2.04
E CU I PMENT	DOL.			1.41
	DOL .			30. 64
TOTAL OWNERSHIP COST				34.09
RETURNS TO LAND, LABOR, OVERHEAD, RISK AND MANAGEMENT				5.2
ABOR COST:				per 40 40 40
MACHINERY LABOR	HR.	3.000	1.875 2.080	5.62
	HR .	3.000	2.080	6. 24
TOTAL LABOR COST				11-00
RETURNS TO LAND, OVERHEAD, RISK AND MANAGEMENT				-6.6

PANHANDLE ENERGY BUDGETS
HERBICIDE BANVEL D

ENTERPRISE 86 AREA AND COUNTY 10 DETAIL 00 IRIG. LEVEL 6 LAND CLASS 1 GRAZING 6 MACH. COMP. _1 IRIG. SYSTEM 5 PRICE VECT 1 INDIV. NUMBER _0 ANNUAL CAPITAL MONTH: 9 DATE PRINTED: 03/05/75

5 - FRENCICIDE																			
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PRAYER																			
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ITEM																			
OPERATION NO. DATE OVER HOURS HOURS REPAIR PER ACRE PER ACRE	TELD CULTIVATOR	+6	0.60	0.	. 03	0.07		0.70	0		0.0		0.0	0.7	() 	U.45		U • 24	
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RILL WO/FERT 4.61 SEP 1.00 <u>0.217 0.179 0.56 1.03</u>			JUN	1.00															
	ORTILL WOJEFRY		SEP	1.00	1.217	0-179													

TABLE LIX

REDUCED TILLAGE WHEAT AND SOYBEAN DOUBLE CROP ON SANDY LOAM
SOIL UNDER CIRCULAR SPRINKLER IRRIGATION

CATEGORY	UNITS	PRICE	QUANTITY	VALUE
PRODUCTION:				
WHEAT	8 U •	2.050	50.000	102.50
SCYBEANS	8U.	3.280	35-000	114.80
TOTAL RECEIPTS				217.30
OPERATING INPUTS:				
NITROGEN	LBS.	0.300		
PHOSPHATE	LBS.	0.250	50.000	
WHEAT SEED	8U .	5.000	1.000	5.00
CUSTOM COMBINE	ACRE	9.400	1.000	
CUSTOM HAULING	BU.	0.100	50.000 90.000	5.00 15.30
SOYBEAN SEED HERBICIDE	LBS. ACRE	10.000	1.000	10.00
CUSTOM COMBINE	ACRE	9.700	1.000	
	BU.	0.100	35.000	3. 50
TRACTOR FUEL COST	ACRE	0.100	33.000	1.10
TRACT REPAIR COST	ACRE			0.53
TRACTOR LUBE COST	ACRE			0.16
EQUIP REPAIR COST	ACRE			0.39
IRRIG FUEL COST	ACRE			11. 22
IRRIG LUBE COST	ACRE			2.31
IRRIG REPAIR COST	ACRE			17.49
TOTAL CPERATING COST				139.60
RETURNS TO LAND, LABOR, CAPITAL, MACHINERY OVERHEAD, RISK, AND MANAGEMENT	·			77. 70
CAPITAL COST:				
ANNUAL CPERATING CAPITAL			22.144	
TRACTOR INVESTMENT		0.100	7.818	0.78
ECUIPMENT INVESTMENT IRRIGATION SYSTEM INVESTMENT		0.100	174 900	17 40
TOTAL INTEREST CHARGE				21.10
RETURNS TO LAND, LABUR, MACHINERY, OVERFEAD, RISK AND MANAGEMENT				56.60
UWNERSHIP CUST: (DEPRECIATION.				
TAXES, INSURANCE)				
TRACTOR	DOL .			0- 93
EQUIPMENT	DOL.			0.98
IRRIGATION SYSTEM	DOL.			45.87
TOTAL OWNERSHIP COST				47. 78
RETURNS TO LAND, LABOR, OVERHEAD,				8. 82
LABCR COST:			ngen might sign tilled light siden siden sogn blygt sogn, deter et	
MACHINERY LABOR	HR.	3.000	0.808 1.716	2.42
IRRIGATION LABOR	HR.	3.000	1.716	5.15
TOTAL LABOR COST			·	7. 57
RETURNS TO LAND, OVERHEAD, RISK AND MANAGEMENT				1. 24

PANHANDLE ENERGY BUDGETS
PRE-MERGE HERBICIDE LASSO AND SENCOR AIR APPLICATION

ENTERPRISE 98 AREA AND COUNTY 10 DETAIL QQ IRIG. LEVEL 8 LAND CLASS 8 GRAZING 6 MACH. COMP. 1 IRIG. SYSTEM 4 PRICE VECT 1 INDIV. NUMBER 0 ANNUAL CAPITAL MONTH:10 DATE PRINTED: 03/05/75

LINE			AN	FE8	3 Mar	APR	MAY	- JUN	7 JUL	AU G	SEP	0 CT	NOV	DEC	PRICE	14 WEIGH	15 T UNIT	ITEM CODE	17 TYPE	CONT
PRODUCTION							NUMBE	R 0F I	MITS								CODE	CO DE		
1 WHEAT 2 SOYBEAN			.0	0.0	0.0	0.0		50.00	0.0	0.0	0.0	0 .0 35 .00	0.0	0.0	2.050 3.280	0.0	2.	76. 98,	2. 2.	0. 0.
OPERATING	INPUTS						RAT	E/UNI	r						PRICE		R UNIT		TYPE	CONT
LL NITROGE			160	0.0	0.0		0.0	0.0	0.0	0.0		120.00		0.0	0.300	0.0	12.	211.	3.	0.
2 PHOSPHA				0.0	0.0		0.0	0.0	0.0	0.0	0.0	50.00		,0.0	0.250	0.0		214.	з.	٥.
A CHETOM	EED COMBINE			0.0	0.0		0.0	0.0	0.0	0.0	0.0	1.00		0.0	5.000 9.400	0.0		176. 305.	3.	0. 0.
	HAULING		.0	0.0	0.0		0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.0		306.	3.	o.
6 SOYBEAN			.0.	0.0	0.0		0.0	0.0	90.00	0.0	0.0	0.0	0.0	0.0	0.170	0.0		198.	3.	ō.
7 HERBICE			.0	0.0	0.0		0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	10.000	0.0	7.	250%	з.	0.
8 CUSTOM			. 0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	1.00		0.0	9.700	0.0		305.	3.	0.
	HAULING		••	0.0	0.0	0.0	0.0	0.0	0. 0	0.0	0.0	35.00	0.0	0.0	0.100	0.0		306.	3.	0.
ACHINERY				4					OVER						XXXXX			CDDE		
8 DRY FER			••	0.0	0.0		0.0	0.0	0.0	0.0	0.0	1.00		0.0	0.0	0.0	**	71.	4.	٥.
9 OFFSET O CULTIBE	DISK ECDER TI		.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	1.00		0.0	0.0	0.0	4.	37. 51.	4.	0.
1 DRILL N				0.0	0.0		0.0	0.0	0.0	0.0	0.0	1.00		0.0	0.0	0.0	7:	61.	4.	ŏ.
2 CULTIBE			. 0	0.0	0.0		0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.	67.	4.	ō.
9 ACIN IF	RIG WAT	ER C	•0	0.0	3.0	0 3.00	6.00	0.0	7.00	8.00	0.0	3.00	3.00	0.0						
	PANHAN D PRE-MER					AND SE	NCOR AIR	APPL	I CAT-ION							NERY C			ī	
***NO NAME	CHANGE					91TH TH	IIS BUDG	ET +++	à.											
*** NO NAME		S HAV	E 81	EEN ST	ORED				· · ·											
*** NC COMF	PLEMENT	CHANG	ES I	EEN ST	ORED EEN S	TORED I	OF RECE	S BUDG	AND EXP		·		AUG		·	NOV.	DEC			
**NC COMF	PLEMENT	S HAV	E DI	EEN ST	ORED SHLY S	TORED L	OF RECE	S BUDG	AND EXP	JUN		JUL De O	AUG 0-0	SEP 0-0	OCT	NOV 0-0	DEC 0-0			 OTAL 7-30
CAT	LEMENT TEGORY LPTS	CHANG	ES I	EEN ST HAVE E	ORED EEN S	UMMARY FEB 0.0	OF RECE	S BUDG	AND EXP	JUN 102-5	0 (. 0	AUG 0.0 7.52	SEP 0.0	OCT 114.80 71.18	NOV 0.0 2.92	DEC 0.0 0.0		21	OTAL 7.30 9.60
CAT OTAL RECE	PLEMENT TEGORY ELPTS ENSES	CHANG	E BI	HAVE E	HLY S	UMMARY FEB 0.0 0.0	OF RECE MAR 0.0 2.82	S BUDG	AND EXP MAY 0.0 5.64	JUN 102-5	0 0	0. 0 2.40	0.0	0.0	114.80	0.0	0.0		21 13	7.30
CAT OTAL RECE OTAL EXPE	PLEMENT TEGORY TPTS ENSES D LAND,	CHANG	E BI	HAVE E	HLY S	UMMARY FEB 0.0 0.0	OF RECE MAR 0.0 2.82	S BUDG	AND EXP MAY 0.0 5.64	JUN 102-5	0 (0 32 GEMEN	0. 0 2.40 1T	0.0	0.0	114.80	0.0	0.0		21 13 7	7.30
CAT OTAL RECE OTAL EXPE LETURNS TO	TEGORY EPTS ENSES LAND,	CHANG	ES INIT	HAVE E	ORED SEEN S	TORED LOW TORED LOW THE MERY,	OF RECE MAR 0.0 2.82 OVERHE	S BUDG APR 0.0 2.82 AD, R	AND EXP MAY 0.0 5.64 ISK, AN	JUN 102-5 14-4 D MANA	0 (0 3; GEMEN	0. 0 2 .40 1 T	0.0 7.52 1.25	0.0	114.80 71.18	2.82	0.0		21 13 7	7.30 9.60 7.70 2.14
CAT COTAL RECE OTAL EXPE RETURNS TO	EGORY ELPTS ENSES LAND,	CHANG	SES INIT	HAVE E	ORED SEEN S AN SOLO SEEN S SEEN S SEEN S SEEN S SEEN S SEEN S	TORED LOW LONG TORED LONG LONG LONG LONG LONG LONG LONG LONG	OF RECE MAR O.O 2.82 OVERHE 1.64	S BUDG APR 0.0 2.82 (AD, R	AND EXP MAY 0.0 5.64 ISK, AN 2.35	JUN 102-5 14-4 D MANA 4-8	0 (0 GEMEN	0. 0 2.40 NT 3.10	1.25	0.0	0.0 0.62	2.58	0.0		21 13 7	7.30 9.60 7.70 2.14
CAT OTAL RECE OTAL EXPE ETURNS TO NNUAL CAP ACHINERY RRIGATION	EGGRY EIPTS ENSES LAND, TTAL LABOR LABOR	CHANG	ES INIT	HAVE E	ORED SEEN S	TORED LOW TORED LOW THE MERY,	OF RECE MAR 0.0 2.82 OVERHE	S BUDG APR 0.0 2.82 AD, R	AND EXP MAY 0.0 5.64 ISK, AN	JUN 102-5 14-4 D MANA	0 6	0. 0 2.40 NT 1.10	0.0 7.52 1.25	0.0	114.80 71.18	2.82	0.0		21 13 7 2	7.30 9.60 7.70 2.14
CAT CTAL RECE OTAL EXPE ETURNS TO NNUAL CAP INCHINERY RRIGATION OTAL LABO	PLEMENT TEGORY EIPTS ENSES O LAND, TITAL LABOR K LABOR	CHANG	SES INIT	HAVE E	ORED SEEN S AN O O O O O O O O O O O O O O O O O O	TORED LOUMMARY FEB 0.0 0.0 HINERY.	OF RECE HAR 0.0 2.82 OVERHE 1.64 VTS BY M 0.0 0.16	S BUOG IPTS APR 0.0 2.82 AD, R 1.41 IONTH 0.0 0.16	AND EXP MAY 0.0 5.64 ISK, AN 2.35	JUN 102-5 14-4 D MANA 4-8	0 (0 GEMEN	0. 0 2.40 NT 3.10 0.18 0.36 0.55	0.0 7.52 1.25 0.0 0.42	0.0	0.0 0.62 0.16	2.58 0.0 0.16	0.0		21 13 7	7.30 9.60 7.70 2.14 C.B1 1.72
CAT CTAL RECE OTAL EXPE ETURNS TO NNUAL CAP INCHINERY RRIGATION OTAL LABO	PLEMENT TEGORY EIPTS ENSES O LAND, TITAL LABOR K LABOR	CHANGE LABOR	GES I	HAVE E	HLY S	UMMARY FEB 0.0 0.0 HINERY, 0.0 UUIRENER 0.0 0.0	OF RECE MAR O.0 2.82 OVERHE 1.64 VTS BY P 0.0 0.16 0.16	S BUDG APR 0.0 2.82 AD, R 1.41 IDNTH 0.0 0.16 0.16	2.35 0.0 0.31 0.0 5.64 15K, AN	JUN 102-5 14-4 D MANA 4-8 0-0 0-0	0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0	0.0 2.40 NT 1.10 0.18 0.36 0.55	0.0 7.52 1.25 0.0 0.42 0.42	0.0	0.0 0.62 0.16 0.78	2.58 2.58 0.0 0.16 0.16	0.0		21 13 7	7.30 9.60 7.70 2.14 C.B1 1.72 2.52
CAT OTAL EXPEDITION OTAL EXPEDITION OTAL EXPEDITION OTAL EXPEDITION OTAL EXPEDITION OTAL CAP PACHINE PACHINE PACHINE	PLEMENT TEGORY EIPTS NSES O LANO, PITAL LABOR V LABOR V LABOR V HATER	CHANGE LABOR	GES (INTITUCE E GERES (INTITUE E GERES (HAVE E	HLY S	TORED LA LIMITARY OF THE MENT	OF RECE MAR 0.0 2.82 0VERHE 1.64 VTS BY N 0.0 0.16 0.16 3.00 AND VAR TAX	S BUDG IPTS APR 0.0 2.82 AD, R 1.41 IDNTH 0.0 0.16 0.16 3.00	0.0 5.64 1SK, AN 2.35 0.0 0.31 0.31	JUN 102-5 14-4 D MANA 4-8 0-0 0-0 0-0	O E	0.0 2.40 NT 1.10 0.18 0.36 0.55	0.0 7.52 1.25 0.0 0.42 0.42 8.00	0.0 0.0 0.0 0.0 0.0 0.0	0.0 71.18 0.0 0.62 0.16 0.78 3.00	0.0 2.82 2.58 0.0 0.16 0.16 3.00	0.0 0.0 0.0 0.0 0.0		21 13 7 2 2 3	7.30 9.60 7.70 2.14 C.B1 1.72 2.52
CATAL EXPE OTAL EXPE ETURNS TO NNUAL CAP NACHINERY RRIGATION OTAL LABO PACHINER RACTORIA:	PLEMENT TEGORY LIPTS ENSES O LANO, PITAL LABOR V LABOR N WATER	CODE	GES (INTITUCE E GERES (INTITUE E GERES (MAVE E MONTO C LABCO C DEPR 1.05	ORED SEEN S HLY S AN S A	TORED LE UMMARY FEB 0.0 0.0 HINERY, 0.0 UIREMEN 0.0 0.0 0.0 0.0 0.0 0.0 0.0 VFIXED NSUR. 0.06	OF RECEMAR O.0 2.82 OVERHE 1.64 VTS BY M O.0 0.16 3.00 AND VAR TAX O.16	S BUDG IPTS APR 0.0 2.82 AD, R 1.41 IONTH 0.0 0.16 0.16 3.00	AND EXP MAY 0.0 5.64 ISK, AN 2.35 0.0 0.31 0.31 6.00 COSTS AL FIXE	JUN 102-5 14-4D MANA 4-8 0-0 0-0 0-0 PER HDD	O E	0.0 2.40 NT 0.10 0.18 0.36 0.55	0.0 7.52 1.25 0.0 0.42 0.42 8.00	0.0 0.0 0.0 0.0 0.0 0.0	0.0 71.18 0.0 0.62 0.16 0.78 3.00	2.58 0.0 0.16 0.16 3.00	0.0 0.0 0.0 0.0 0.0 0.0	i	21 13 7 2 2 3 7TIME	7.30 9.60 7.70 2.14 C.B1 1.72 2.52
OTAL EXPENDING TO THE PACK TO	PLEMENT TEGORY ELPTS NSES O LANO, PITAL LABOR N LABOR N HATER	CODE	GES (INTITUCE E GERES (INTITUE E GERES (MACE EMPITAL LABO MACI DEPR 1.05	HLY S AN O O O O O O O O O O O O O O O O O O	TORED LA LIMINARY FEB 0.0 0.0 0.0 HINERY, 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	OF RECE MAR 0.0 2.82 OVERHE 1.64 NTS BY N 0.0 0.16 0.16 3.00 AND VAR TAX 0.16 0.06	S BUDG IPTS APR 0.0 2.82 AD, R 1.41 IONTH 0.0 0.16 0.16 3.00	AND EXP MAY 0.0 5.64 ISK, AN 2.35 0.0 0.31 0.31 6.00 COSTS AL FIXE I. 27 0.80	JUN 102-5 14-4D MANA 4-8 0-0 0-0 0-0 0-0 PER HOD D REP 0-0	O CONTROL OF THE PAIR 72 29	0.0 2.40 NT 1.10 0.18 0.36 0.55 7.00	0.0 7.52 1.25 0.0 0.42 0.42 8.00	0.0 0.0 0.0 0.0 0.0 0.0	0.0 71.18 0.0 0.62 0.16 0.78 3.00	0.0 2.82 2.58 0.0 0.16 0.16 3.00	0.0 0.0 0.0 0.0 0.0 0.0	(21 13 7 2 2 3 /TIME 1.00	7.30 9.60 7.70 2.14 C.B1 1.72 2.52
CATAL EXPE OTAL EXPE OTAL EXPE INTUAL CAP INTUAL CAP INTUAL CAP INTUAL CAB INTUAL CAP INTUAL CAP IN	PLEMENT TEGORY IPTS INSES O LAND, PITAL LABOR V LABOR N HATER	CODE 4 71 37	GES (INTITUCE E GERES (INTITUE E GERES (MACE EAST AND COMMENT OF COMMENT	HLY S HLY S HLY S HAC	TORED IN UMMARY FEB 0.0 0.0 HINERY, 0.0 WIREMEP 0.0 0.0 0.0 FIXED NSUR. 0.06 0.03	OF RECE MAR 0.0 2.82 OVERHEE 1.64 VTS BY N 0.0 0.16 0.16 3.00 AND VAR TAX 0.16 0.08 0.21	S BUDG IPTS APR 0.0 2.82 (AD, R 1.41 IDNTH 0.0 0.16 0.16 3.00	AND EXP MAY 0.0 5.64 ISK, AN 2.35 0.0 0.31 0.31 6.00 COSTS AL FIXE 1.27 0.80	JUN 102-5 12-5 14-AD HANA 4-8 0-0 0-0 0-0 0-0 D REP 0-0	0 (0) (0) (0) (0) (0) (0) (0) (0	0.0 2.40 NT 1.10 0.18 0.36 0.55	0.0 7.52 1.25 0.0 0.42 0.42 8.00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.62 0.16 0.78 3.00 TOII VARI/ 2.4 0.2	0.0 2.92 2.58 0.0 0.16 0.16 3.00 FAL ABLE	0.0 0.0 0.0 0.0 0.0 0.0 1NT. 1.06 0.51	(21 13 7 2 2 3 /TIME 1.00 0.09 0.13	7.30 9.60 7.70 2.14 C.B1 1.72 2.52
CATAL RECEDITAL EXPERIENCE OF TALL EXPERIENCE OF TA	PLEMENT JEGORY IPTS NSES OLANO, ITAL LABGR Y LABGR OR N WATER	CODE	GES (INTITUCE E GERES (INTITUE E GERES (MACE EMPITAL LABO MACI DEPR 1.05	HLY S HLY S HLY S HOUSE	TORED LA LIMINARY FEB 0.0 0.0 0.0 HINERY, 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	OF RECEMANS O-0 2.82 OVERHE 1.64 VTS BY N O-0 O-16 O-16 3.00 AND VAR TAX O-16 O-21 O-21	S BUDG IPTS APR 0.0 2.82 AD, R 1.41 IDNTH 0.0 0.16 0.16 3.00 IABLE TOTA	AND EXP MAY 0.0 5.64 ISK, AN 2.35 0.0 0.31 0.31 6.00 COSTS AL FIXE 1.27 0.80	JUN 102-5 104-4D HANA 4-8 0-0 0-0 0-0 0-0 0-0 0-0 0-0	O CONTROL OF THE PAIR 72 29	0.0 2.40 NT 1.10 0.18 0.36 0.55 7.00	0.0 7.52 1.25 0.0 0.42 0.42 8.00	0.0 0.0 0.0 0.0 0.0 0.0	0.0 71.18 0.0 0.62 0.16 0.78 3.00	2.58 2.58 0.0 0.16 0.16 3.00	0.0 0.0 0.0 0.0 0.0 0.0 1NT. 1.06 0.51 1.24	(21 13 7 2 2 3 /TIME 1.00	7.30 9.60 7.70 2.14 C.B1 1.72 2.52
OTAL EXPE OTAL EXPE ETURNS TO NNUAL CAP IACHINERY RRIGATION OTAL LABO MACHINE RACTORIA INV FET S ULT 186006 ULT 186006	PLEMENT TEGORY LIPTS INSES LAND, TTAL LABOR LABOR WHATER WHATER SK RTILL ERT	CODE 471 37 51	GES (INTITUCE E GERES (INTITUE E GERES (HAVE E HONTO	ORED SEEN S HLY O O O O O O O O O O O O O O O O O O O	TORED & UMMARY FEB 0.0 0.0 0.0 HINERY, 0.0 UIREMEP 0.0 0.0 0.0 FIXED NSUR. 0.06 0.03 0.07	OF RECE MAR 0.0 2.82 OVERHEE 1.64 VTS BY N 0.0 0.16 0.16 3.00 AND VAR TAX 0.16 0.08 0.21	S BUDG IPTS APR 0.0 2.82 (AD, R 1.41 IONTH 0.0 0.16 0.16 3.00 IABLE TOT	AND EXP MAY 0.0 5.64 ISK, AN 2.35 0.0 0.31 0.31 6.00 COSTS AL FIXE 1.27 0.80	JUN 102-5 14-4D HANA 4-8 0-0 0-0 0-0 0-0 D REP 00-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0	0 32 GEMEN 0 6 0 (0)	0.0 2.40 1.10 0.18 0.36 0.55 7.00	0.0 7.52 1.25 0.0 0.42 0.42 8.00	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.62 0.16 0.78 3.00 TOI VARIA 0.2 0.4	0.0 2.32 2.58 0.0 0.16 0.16 3.00 [ALL 44 19 33	0.0 0.0 0.0 0.0 0.0 0.0 1NT. 1.06 0.51	(21 13 7 2 2 3 7 7 T T M E 1.00 0.09 0.13 0.11	7.30 9.60 7.70 2.14 C.B1 1.72 2.52
OTAL EXPE OTAL EXPE ETURNS TO NNUAL CAP IACHINERY RRIGATION OTAL LABO MACHINE RACTORIA INV FET S ULT 186006 ULT 186006	PLEMENT JEGORY LIPTS NSES OLANO, PITAL LABOR N LABOR N LABOR N HATER J PREAD SK ET TILL ERT PLNT	CODE 471 37 51 61	GES INTERPORTED TO THE PROPERTY OF THE PROPERT	HONT C C C C C C C C C C C C C C C C C C C	ORED SHLY SHAN SHAN SHAN SHAN SHAN SHAN SHAN SHAN	TORED & UMMARY FEB 0.0 0.0 0.0 HINERY, 0.0 0.0 0.0 0.0 0.0 FIXED NSUR. 0.06 0.03 0.07 0.03	OF RECE MAR 0.0 2.82 OVERHEE 1.64 VTS BY M 0.16 0.16 3.00 AND VAR TAX 0.16 0.21 0.05 0.21 0.05 0.21	S BUDGE IPTS APR 0.0 2.82 AD, R 1.41 IONTH 0.0 0.16 3.00 IABLE TOT.	AND EXP MAY 0.0 5.64 ISK, AN 2.35 0.0 0.31 0.31 6.00 COSTS AL FIXE 1.27 0.80 1.94 0.90 1.93 1.42	JUN 102.5 14.4 D MANA 4.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 32 GEMEN 0 6 0 (0) 0 (0.0 2.40 0.18 0.36 0.35 7.00 FUE 1.4 0.0 0.0 0.0	0.0 7.52 1.25 0.0 0.42 0.42 8.00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.62 0.16 0.78 3.00 TOI VARIA 0.2 0.4 0.5	0.0 2.32 2.58 0.0 0.16 0.16 3.00 [ALL 44 19 33	0.0 0.0 0.0 0.0 0.0 0.0 1NT. 1.06 0.51 1.24 0.51	(21 13 7 2 2 2 7 7 T T ME 1.00 0.09 0.11 0.18	7.30 9.60 7.70 2.14 C.B1 1.72 2.52
CATAL RECE OTAL RECE OTAL RECE OTAL EXPE INTUAL CAP INT	PLEMENT JEGORY LIPTS NSES D LANO, PITAL LABOR LABOR R LABOR R LABOR R LABOR R LABOR R R LABOR R R LABOR R R LABOR R R R R N HATER	CODE 4 71 37 61 67	ES INTERPORTED TO THE PROPERTY OF THE PROPERTY	MONT (() () () () () () () () ()	HLY S HLY S HAY S	TORED LUMMARY FEB 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1.64 NTS BY NO.0 0.16 3.00 AND VAR TAX 0.16 0.02 0.16 MACHINE HOURS	S BUDGE IPTS APR 0.0 2.82 2.82 AD, R 1.41 INDITH 0.0 0.16 3.00 IABLE TOT.	AND EXP MAY 0.04 15K, AN 2.35 0.0 0.31 0.31 6.00 COSTS AL FIXE 1.27 0.80 1.94 0.80 1.94 0.80	JUN 102.5 14.4 D MANA 4.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 32 GEHER 0 6 (()) 1 () 1 () 1 () 1 () 1 () 1 () 1 ()	0.0 2.40 0.18 0.36 0.36 0.55 7.00 FUE 1.4 0.0 0.0 0.0 0.0	0.0 7.52 1.25 0.0 0.42 0.42 8.00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.62 0.16 0.78 3.00 TOI VARIA 0.2 0.4 0.5	0.0 2.32 2.58 0.0 0.16 0.16 3.00 [ALL 44 19 33	0.0 0.0 0.0 0.0 0.0 0.0 1NT. 1.06 0.51 1.24 0.51	(21 13 7 2 2 2 7 7 T T ME 1.00 0.09 0.11 0.18	7.30 9.60 7.70 2.14 C.B1 1.72 2.52
CATAL EXPE OTAL EXPE OTAL EXPE OTAL EXPE OTAL EXPE INVIDENT TO INVIDENT TO INV	PLEMENT PEGORY EIPTS EIP	CODE 4 71 37 1161 67 1176	SES INITE CREE CREE CREE CREE CREE CREE CREE CR	HONT C C C C C C C C C C C C C C C C C C C	ORED SHLY SHAN SHAN SHAN SHAN SHAN SHAN SHAN SHAN	UMMARY, FEB 0.0 0.0 HINERY, 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1.64 TAS BY PO 0.16 3.00 AND VAR TAX 0.16 0.01 0.16 MACHINE	S BUDGE IPTS APR 0.0 2.82 2.82 2.82 2.82 3.00 1.41 0.0 0.16 3.00 1ABLE TOT.	AND EXP MAY 0.0 5.64 ISK, AN 2.35 0.0 0.31 0.31 6.00 COSTS AL FIXE 1.27 0.80 1.94 0.90 1.93 1.42	JUN 102.5 14.4 D MANA 4.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 32 GEMEN 0 6 0 (0) 0 (2.40 2.40 NT 1.10 0.18 0.36 0.55 7.00 FUE 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 7.52 1.25 0.0 0.42 0.42 8.00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.62 0.16 0.78 3.00 TOI VARIA 0.2 0.4 0.5	0.0 2.32 2.58 0.0 0.16 0.16 3.00 [ALL 44 19 33	0.0 0.0 0.0 0.0 0.0 0.0 1NT. 1.06 0.51 1.24 0.51	(21 13 7 2 2 2 7 7 T T ME 1.00 0.09 0.11 0.18	7.30 9.60 7.70 2.14 C.B1 1.72 2.52
OPERATIC	PLEMENT PEGORY EIPTS EIP	CODE 4 71 1 1 1 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1	GES (INIT CREE CREE CREE CREE CREE CREE CREE CRE	MONTAL COMMENT OF THE PROPERTY	HLY S HLY S HAN	UMMARY FEB 0.0 0.0 0.0 HINERY, 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	OF RECE MAR O.0 2.82 OVERHE 1.64 WTS BY M O.0 0.16 3.00 AND VAR O.16 0.21 0.00 0.21 0.13	S BUDGE S B	AND EXP MAY 0.0 5.64 1SK, AN 2.35 0.0 0.31 0.31 6.00 COSTS AL FIXE 1.27 0.80 1.94 0.80 1.94 0.80 1.94 0.80 1.94 0.80	JUN 102.5 14.4 D MANA 4.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 32 GEHER 0 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2.40 2.40 3.16 3.36 3.36 3.55 7.00 FUE 1.4 0.0 0.0 0.0 0.0 0.0	0.0 7.52 1.25 0.0 0.42 0.42 8.00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.62 0.16 0.78 3.00 TOI VARIA 0.2 0.4 0.5	0.0 2.32 2.58 0.0 0.16 0.16 3.00 [ALL 44 19 33	0.0 0.0 0.0 0.0 0.0 0.0 1NT. 1.06 0.51 1.24 0.51	(21 13 7 2 2 2 7 7 T T ME 1.00 0.09 0.11 0.18	7.30 9.60 7.70 2.14 C.B1 1.72 2.52
CATAL RECE OTAL RECE OTAL RECE OTAL EXPE LETURNS TO ANNUAL CAP HACHINERY HACHINERY PACHINE PAC	PLEMENT JEGORY LATE STATE LABOR LABO	CODE 4 71 37 51 61 67 67 4.5	GES INIT CRE CRE CRE CRE CRE INCH	MONTO COLOR OF THE PROPERTY OF	HLY S HLY S HACO HO O HO	TORED LUMMARY FEB 0.0 0.0 0.0 HINERY, 0.0 0.0 WIREMEN 0.0 0.0 0.0 FIXED 0.06 0.03 0.07 0.03 0.07 0.05 LABOR HOURS 0.184 0.1157 0.139	OF RECE MAR 0.0 2.82 2.0 VERHE 1.64 NTS BY M 0.0 0.16 0.16 0.16 0.00 0.16 0.00 0.15 0.15 0.00 0.21 0.00 0.21 0.00 0.21 0.00 0.21 0.00 0.21 0.00 0.21 0.00 0.21 0.00 0.21 0.00 0.21 0.00 0.21 0.00 0.21 0.00 0.21 0.00 0.00	S BUDG APR 0.0 2.82 AD, R 1.41 0.10 0.16 3.00 1.48 TOT	AND EXP MAY 0.0 15.64 15K, AN 2.35 0.0 0.31 0.31 6.00 COSTS AL FIXE 1.27 0.80 1.94 0.80 1.94 0.80 1.94 0.80 1.94 0.80	JUN 102.5 14.4 D MANA 4.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 3 3 GEMEP 0 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	PUE 1-40 0-18 0-36 0-55 7-00 FUE 1-4 0-0 0-0 0-0 0-0 COSTS	0.0 7.52 1.25 0.0 0.42 0.42 8.00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.62 0.16 0.78 3.00 TOI VARIA 0.2 0.4 0.5	0.0 2.32 2.58 0.0 0.16 0.16 3.00 [ALL 44 19 33	0.0 0.0 0.0 0.0 0.0 0.0 1NT. 1.06 0.51 1.24 0.51	(21 13 7 2 2 2 7 7 T T ME 1.00 0.09 0.11 0.18	7.30 9.60 7.70 2.14 C.B1 1.72 2.52
OPERATION OTAL RECE OTAL EXPE ETURNS TO INNUAL CAP RRIGATION PACHINERY RRIGATION PACHINE RRIGATION PACHINE RRIGATION OTAL LABO	PLEMENT PEGORY EIPTS EINTE ENSES PLAND, PITAL LABOR V	CODE 4 71 1 1 1 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1	GES INIT CRE CRE CRE CRE CRE INCH	MONTAL COMMENT OF THE PROPERTY	HLY S HLY S HAN	TORED LUMMARY FEB 0.0 0.0 0.0 HINERY, 0.0 0.0 WIREMEN 0.0 0.0 0.0 FIXED 0.06 0.03 0.07 0.03 0.07 0.05 LABOR HOURS 0.184 0.1157 0.139	OF RECE MAR O.0 2.82 OVERHE 1.64 WTS BY M O.0 0.16 3.00 AND VAR O.16 0.21 0.00 0.21 0.13	S BUOGO APR APR 0.0 0.0 1.41 1.41 1.41 1.41 1.41 1.41 1	AND EXP MAY 0.0 5.64 1SK, AN 2.35 0.0 0.31 0.31 6.00 COSTS AL FIXE 1.27 0.80 1.94 0.80 1.94 0.80 1.94 0.80 1.94 0.80	JUN 102.5 14.4 D MANA 4.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 32 GEHER 0 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0.00 0.18 0.36 0.55 7.00 FUE 0.0 0.0 0.0 0.0 0.0 0.0	0.0 7.52 1.25 0.0 0.42 0.42 8.00	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.62 0.16 0.78 3.00 TOI VARIA 0.2 0.4 0.5	0.0 2.32 2.58 0.0 0.16 0.16 3.00 [ALL 44 19 33	0.0 0.0 0.0 0.0 0.0 0.0 1NT. 1.06 0.51 1.24 0.51	(21 13 7 2 2 2 7 7 T T ME 1.00 0.09 0.11 0.18	7.30 9.60 7.70 2.14 C.B1 1.72 2.52

TABLE LX
FARM MACHINERY ITEMS FOR REPRESENTATIVE FARMS

Item	Size ^{A/}	Farm	I	Farm II	Farm III
			Number		
Large tractor	115	1.		1	3
Medium tractor	75	0		1	1
Small tractor	55	1		1	1
Dry fertilizer spdr.	25	1		1	2
Anhydrous applicator	18	, 1		• 1	2
Cultibedder anhydrous	18	1		1	2
Sweep anhydrous	12	1		1	2
Grain drill	18	1		2	3
Cultibedder planter	18	1		1	2
Sweeps	24	1		2	3
Chisel	12	1		1	2
Offset disc	16	1		2	3
Tandem disc	14	1		1	2
Shredder	12	1		1	2
Land float	10	1		1	2
Sprayer	12	1		1	1
Row cultivator	18	1		1	2
Cultibedder tiller	18	- 1		1	2
Rod weeder	18	1		1	2
Rotary hoe	18	1		1	1
Mold board plow (4-16")	5 1/3	1		1	2
Spike harrow	20	1.		1	. 1

 $[\]underline{A}/\mathrm{All}$ items are measured in feet of width except the tractors which are measured in horsepower.

APPENDIX B

LINEAR PROGRAMMING TABLEAU AND EXPLANATION OF ROWS AND COLUMNS

TABLE LXI
LINEAR PROGRAMMING TABLEAU FOR SPECIFIED CROPS AND REPRESENTATIVE FARMS

	ccG	ccs	C *G	CWGO	CSMI	СЅНІ	CRGO	CSH	11
08J1	125.62000-	84.33000-	42.28000-	39.80000-	48.17000-	77.81000-	39.78000-	92.23000-	OBJI
0BJ2	8.06627	d.05o15	4.30228	4.14223	3.21702	5.98873	5.49292	6.77974	0BJ2
08J3	•	•	•	•	•	•	•	•	08J3
OBJ4	2.51101	5.46385	1.51378	.61850	3.49481	3.86319	.73219-	3.71026	OBJ4
CCL	•	•	1.00000	1.00000	1.00000	1.00000	•	1.00000	CCL
CSL	1.00000	1.00000	•	•	•	•	1.00000	•	. CSL .
JAL	• * * * * * * * * * * * * * * * * * * *	•	•	•		•	•		JAL
FBL	•	•	•	.11000	•		.11000	•57000	FBL
MRL	-18000	•54000	•	.27000	•43000	•46000	•27000	.18000	MRL
APL	• 42000	.11000	•16000	.16000	•46000	•25000	•16000	•	APL
MYL	· 87000	.31000	.31000	.16000	• 76000	•45.000	•16000	- 74 00 0	MYL
JNL	•56000	•63000	.18000	•43000	1.24000	1.17000	•43000	•19000	JNL
JYL	•6800 0	.68000	.29000	.29000	•	•68000	•29000	•37000	JYL
AGL	•50000	•68000	•77000	•49000		.37000	•65000	•37000	AGL
STL	•	•	.75000	•22000		•	•22000	-	STL
OCL	-21000		•	•16000	•	•	• 16000	•	OCL
NVL	•	•43000	-21000	•16000	•	•65000	•16000	•	NVL
DCL	_	•	•	•		•03000	• .	•	DCL
űC	42.70000	31.05000	22.66000	21.22000	13.72000	29.44000	24.28000	20.98000	OC
ic	28.54000	28.52000	26.95000	24 • 35000	33.20000	39.45000	24.35000		IC
MRI	•		•	3.00000			3.00000	15.63000	
API	6.00000	•	3.00000	3.00000	•	•		•	MRI
MYI	7.20000	6.00000	6.00000	3.00000	6.00000	6.00000	3.00000	•	API
JNI	7.20000	3.60000			5.00000	3.60000	3.00000	6.00000	MYI
JYI	3.60000	7.20000	•	•	3.00000		•	3.60000	JNI
AGI	3.00000	7.20000	•	3.00000	•	7.20000	•	7.20000	. JAI
STI	A sec.		5.00000			7.20000	3.00000	7.20000	AGI
OCI		•	7.7.7.7.7.7	3.00000	•	•	*	•	STI
IVN	•	and the second	4.00000		• •	•	3.00000	•	OCI
TIW	24.00000	24.00000		3.00000			3.00000	•	NVI
IN	2.00000	2.00000	18.00000	18.00000	11.00000	24.00000	18.00000	24.00000	TIW
PI	•50000	• 50000	1.00000	.80000	1.00000	1.50000	.80000	1.00000	NI
HI	2.00000		•	•40000	• 50000		•40000	•	PI
11		2.00000	•	•	1.50000	1.50000	• * *	•	HI
DI	1.00000	1.00000	7.60000	* *****	1.00000	1.00000	•	•	11
01	9.10000	3.90000	7.60000	7.20000	10.20000	12.20000	7.20000	5.20000	DI
NGI .	3.15000	3.14000	2.28000	2.26000	1.78000	2.53000	2.40000	2.88000	OI
	20.32500	20.32500	10.52500	10.32500	6.42500	14.62500	15.25000	20.32500	NG I
MI	23.06000	23.03000	11.64000	9.74000	8.03000	12.29000	10.90000	15.45000	MT .
WG	•	• "	55.00000-	•	•	•	•	•	₩G
SGGONM	•	•	1.00000-		· •	•	•	•	SGGONM
SGGDOM	• • • • • • • • • • • • • • • • • • • •	•	•	6.00000-	•	•	6.00000-	•	SGGOOM
CG	120.00000-		•	•	•	•	• 1	•	CG
cs	•	20.00000-	•	•	•	•	•	• .	cs
GS	• .	•	•	•	42.00000-	62.00000-	• .	•	GS
GSS	•	•	•	• '	1.00000-	1.40000-	•	•	GSS
SH	•	•	•	•	•	•	•	5.00000-	SH
SB	•	•	•	•	•	•	•	•	SB
MCT	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	MCT
MMT	•	•	•		· ·	•	•	•	MMT .
CSIS	1.00000	1.00000	•	•	•		1.00000	•	CSIS
SIS	•	• '	1.00000	1.00000	1.00000	1.00000	•	1.00000	515
LNGW	• .	•	•	•	•	•	•	•	LNGW

									1
	CCG	c Ç 3	C #G	CWGO	CSMI	CSHI	CRGD	CSH	1
LSI	•	•	•	•	•	•	•	•	LSI
LCSI		• • • • • •	•	•	•	•	•	•	LCSI
LLJ		•	•	•	•	•	. •	•.	LLJ
LLU		•	•	•	•	•	•	•	LLO
LLS		•			•	•	. •	•	LLS
FVS42		•	•	•	•	. •	•	•	FVS42
FV5752	-			•	٠.	•	•	. •	FVS752
FVS101				•	•	•	•	•	FVS101
FVS43	-			•			•	•	FVS43
FVS753	· • •		_			•			FVS753
FV5102	•	<u>.</u>	-	<u> </u>					FVS102
FV5102 FVS46	•	•			-	•			FVS46
	•	•	•		_	_			FVS756
FVS756	•	•	•	•	-	<u>, </u>	-		FVS104
FVS104	•	•	•	•	•	-	•		FVC42
FVC42	•	•	•		•	•	•	•	FVC752
FVC752	•	•	•	•	.•	. •	•	•	FVC101
FVC101	•	•	• .	•	•	•	•	•	FVC43
FVC43	.,•	•	•	•	•	•	•	•	FVC753
FVC753	•	•	•	• .	•	. •	•	•	FVC102
FVC102	•	•	•	•	•	•	•	•	
FVC46	•	•	•	•	•	•	•	. •	FVC46
FVC 756	•	•	•	•	•	•	•	•	FVC756
FVC104	•		•	•	•	•	•	•	FVC104
NRC1		•	•	•	•	•	•	•	NRCI
NHC4		. •	•	•	. •	•	•	•	NRC4
NRC7		•		•	•	•	•		NRC7
NRC2	_	•		•	•	•	•	•	NRC2
NRC5	_			•	•	•	•	•	NRC5
NRCB				<u>.</u>	•	•	•	•	NRC8
NRC3	•					• .	•	•	NRC3
	•	·	-			•		•	NRC6
NRC6	•	•	<u>-</u>			_	•		NRC9
NRC9	.•	•	•	<u> </u>				•	NRS1
NRS1	•		•	•		-	_		NRS4
NRS4	•	•	•	•	•	-	•		NRS7
NRS7	•	•	•	•	•	•		-	NRS2
NRS2	•	•	•	•	•	•	-		NRS5
NRS5	•	•	. •	•	•	•	•	•	NRS8
NRS8	. •	•	•	•	•	•	•	-	NRS3
NKS3	•	• *	•		•	•	•	•	NRS6
NR56	• ,		•	•	•	•	. •	•	NRS9
NRS9	•	•	•	•	•	•	•	•	MKSA

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	CSB	MCG	MSRCSL	MSRSCL	MWG2RCMC	MWGSDC	MWGSBDC	MWGDSHDC	21
OBJ1	52.05000-	132.79000-	95.47000-	67.56000-	44.95000-	81.87000-	110.45000-	89.88000-	08J1
OBJ2	6.78097	8.06161	10.67030	9.17814	4.00920	7.26216	9.44250	6.44794	08J2
08J3	•	•	•	•	•	•	•	•	08J3
OBJ4	2.21257-	3.83783	6.10287	7.55503	1.94384	4.13424	1.32330-	5.06070	OBJ4
CCL	1.00000	•	•	1.00000	1.00000	1.00000	•	1.00000	CCL
CSL	•	1.00000	1.00000	•	•	•	1.00000	•	CSL
. JAL	•	•	•	•	• '	•	•	. •	JAL
FBL	•	•	•	•	•	•	•	•	FBL
MRL	.43000	. 36000	.16000	.21000	•	.16000	.16000	.21000	MRL
APL	.57000	.51000	.16000	.42000	.21000	.16000	.16000	.21000	APL
MYL	.42000	• 36000	.82000	.71000	.31000	.16000	.31000	.32000	MYL
JNL	.66000	.97000	.19000	.96000	.27000	1.17000	•	.76000	JNL
JYL	.66000	.68000	.68000	.42000	.18000	.26000	.54000	.42000	JYL
AGL	.37000	. 29000	.37000	.42000	.51000	•	.42000	.21000	AGL
STL	•	•	•57000	.62000	.54000	.16000	•	.62000	STL
act.	•	•	•	•	•	.79000	.81000	.21000	OCL
NVL		.39000	.21000	.21000	.21000	.16000	.16000	•	NVL
DCL			•	•	•	•	•		DCL
OC	17.45000	44.64000	30.34000	20.52000	24.21000	34.08000	22.14000	16.11000	oc
IC	27.52000	28.91000	19.41000	26.24000	19.63000	20.60000	13.59000	15.31000	IC
MRI	•	•	3.00000	4.00000	•	3.00000	3.00000	4.00000	MRI
API	•	4.00000	3.00000	8.00000	4.00000	3.00000	3.00000	4-00000	API
MYI	6.00000	•	3.00000	4.00000	6.00000	3.00000	6.00000	4.00000	MYI
INL	3.60000	7.20000	3.60000	•	•	6.00000		4.00000	JNI
JYI	7.20000	7.20000	7.20000	8.00000		5.00000	7.00000	8.00000	JYI
AGI	7.20000	5.60000	7.20000	8.00000		•	8.00000	4.00000	AGI
STI	•	•	3.00000	4.00000	3.00000	3.00000	3.0000	4.00000	STI
OCI			300000	***************************************	3.0000	3.00000	3.00000	4.00000	120
NVI			4.00000	4.00000	4.00000	3.00000	3,00000		
TIM .	24.00000	24.00000	34.00000	40.00000	17.00000	29.00000	33.00000	75 00000	TIW
NI	•50000	2.00000	2.80000	2.80000	1.00000	2.40000	1.20000	36.00000	
PI	*30000	•50000	•50000	2.00000				1.80000	NI 19
HI	1.00000	1.50000	1.50000	.25000	1.00000	. 50000	•50000	******	_
				1.00000	1.0000	1.50000	2.50000	-50000	, HI
11		1.00000	1.00000		5 40000	1.00000	-		11
DI	8.20000	9.20000	5.60000	7.70000	5.40000	6.00000	3.60000	4.20000	DI
. 01	3.08000	3.16000	3.90000	4.05000	1.98000	3.23000	3.76000	3.31000	01
NGI	20.32500	20.32500	28.12500	29.12500	9.95000	16.97500	28.05000	21.50000	NGI
MI	22.77000	22.83000	24.17000	44.26000	8.99000	14.62000	25.79000	14.93000	MI
WG	•	•	•	•	56.50000-	50.00000-	50.00000-	•	MG
SGGONM	•	•			1.00000-	•	•	• b	SGGONN
SGGOOM	•	*	4.10000-	4.10000-	•	•	•	5.25000-	SGGDON
CG	•	135.00000-	•	•	•	•	•	•	CG
CS	•	•	20.00000-	20.00000-	•	•	•	•	CS
GS	•	•	•	•	•	48.00000-	•	•	GS
GSS	•	•	•	•	•	• .	•	• .	GSS
SH	•	•	•	•	•	•	•	3.50000-	SH
SB	45.00000-	•	•	•	•	•	35.00000-	•	SB
MCT	1.00000	•	•			•	•	•	MCT
MMT	•	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	THM
2122	•	1.00000	1.00000	•	•	• '	1.00000	•	CSIS
SIS	1.00000	•	•	1.00000	1.00000	1.00000	•	1.00000	SIS
LNGW	•	•	•	•	•	•	•	•	LNGW

		ÇSu	106	MSRCSL	MSRSCL	MWG2RC/AC	MWGSDC	MWGSBDC	MWGOSHDC	22	
	LSI				•	•		•		LSI	
	LCSI			•		•	•		•	LCSI	
2.0	LLJ .		•	•	•		1.17000		95000	LLJ	
	LLO	•	•	. •	•	•	•79000	.81000	•	LLO	
	LLS	• ,	•	•	•	•	•	•	•62000	LLS	
	FV542	•	•	•	•	•	•	•	•	FVS42	
	FV5752	•	•	•	•	•	. •	•	•	FVS752	
	FV5101	•	•	•	•	•	•	•	•	FVS101	
	FVS43	•	•	•	•	• •	•	•	•	FVS43	
	FVS753	•	•	•	•	•	•	•	•	FVS753	
	FVS102	•	•	•	•	•	•	•	•	FVS102	
	FVS46		•	•	•	•	•	•	•	FVS46	
	FVS756	•	•	•	•	•	•	•	•	FVS756	
•	FV5104	•	•	•	•	•	•	•	•	FVS104	
	FVC42	•	•	•	•	•	. •	•	•	FVC42	
	FVC752 FVC101	•	•	•	•	•	•	•	•	FVC752	
•	FVC43	•	•	•	•	•	•	•	•	FVC101	
	FVC753	•	•	•	•	•	•	•	•	FVC43 FVC753	
	FVC102	•	4 1	•	•	•	•	•	•	FVC102	
	FVC46	•	•	•	•	-	•	•	•	FVC102	
	FVC756	•	:	-	•	• • • • • • • • • • • • • • • • • • • •	•	•		FVC756	
	FVC104	•	•				-	•	•	FVC104	
	NRC1		•	· · · · · · · · · · · · · · · ·	•					NRC1	
	NRC4		•	•	•		•	•	•	NRC4	
	NHC 7	•			•	•	•	•	•	NRC7	
	NRC2		. •	•	• '	•	•	•		NRC2	
	NRC5	•	•	•					•	NRC5	
	NRCB	•	•	•	•	•		•		NRC8	
	NRC3	•	• *	•	•	•	•	•	•	NRC3	
	NRC6	•	. •	•	•	•			•	NRC6	
	NRC9	•	•	, •	•	•	•	•	•	NRC9	
	NRS 1		•	•	•	•	•	•	•	NR51	
	NRS4	•	•	•	•	•	•	•	•	NRS4	
	NRS7	•	•	•	•	•	•	•	•	NRS7	
	NRS2	•	•	•	•	•	•	•	•	NR S2	
	NRS5	•	•	. •	•	•	•	•	•	NRS5	
	NRS8	•	•	•	•	•	•	•	•	NRS8	
	NK53	•	•	•	•	. •	•	•	•	NRS3	
	NRS6	•	•	•	. •	•	•	•	•	NRS6	
	NRSƏ	•	•	•	•	•	•	•	•	NRS9	

	MWFSJHI	MWFS3MI	DLW	DLWS	OLGSS	DLGSC	OLSGG0	DLSGGDS	31
OBJ1	30.09000-	29.12000-	25.58000-	25.58000-	28.06000-	17.82000-	20.90000-	20.90000-	08J1
08J2	2.84934	2.20461	.65315	65315	.72258	.30047	•60292	•60292	08J2
UBJ3	•	•	•	. •	•	•	•	•	0BJ3
08 J4	2.30638	2.19096	1.13134	1.13134	2.81714	1.81626	1.30130	1.30130	QBJ4
CCL .	1.00000	1.00000	1.00000	•	•	1.00000	1.00000	•	CCL
CSL			•	1.00000	1.00000	•	•	1.00000	CSL
JAL	•	•	•	•	•				JAL
FBL	•	•	•	•	•	•			FBL
MRL	• 05000	•	•	•	.41000	-41000	•	•	MRL
APL	.05000	.05000	•	•	.16000	.16300	•	•	APL
MYL.	• 1400 0	.14000	•	•	•	•	•	•	MYL
JNL	.27000	.20000	•12000	.12000	.34000	.36000	.25000	.25000	JNL
JYL	•16000	.11000		•	.29000	-29000	.18000	-18000	JYL
AGL	.25000	.20000	.12000	.12000	•	•	.12000	.12000	AGL
STL	• 07000	.07000	.11000	.11000	•	•	.33000	.33000	STL
OCL	•	•		•	•	•	•	•	OCL
NVL	.07000	•	•	•			•		NVL
DCL					•		•	-	DCL
OC	16.41000	14.47000	10.31000	10.31000	11.62000	8.36000	14.82000	14.82000	OC .
I C	8.04000	8.03000	7.19000	7.19000	19.52000	19.14000	14.76000	14.76000	IC
MRI	1.00000	•	•	•	•		•		MRI
AP I	1.00000	1.00000			•	•		<u>.</u>	API
MYI	2.70000	2.70000	•	•				_	MYI
JNI	1.20000	1.00000	•				-	•	JNI
JYI	2.40000	1.30000	•				· · · · ·		IYL
AGI	2.40000	1.30000							AGI
STI	•	•	•	•	•	•		•	STI
oc I	•	1.30000	•	•	•		•	-	OCI
IVN	1.30000	•	•	•	•		•		NVI
TIW	12.00000	8.60000	•	•	•	•	•	• •	TIW
NI	-81000	.80000	•60000	•60000	.50000		.30000	•30000	NI
PI	•	•	•	•	•	•	•30000	.30000	PI
HI	1.00000	1.00000	•	•	•		•	•	HI
11	1.00000	1.00000		•	1.00000	•	•	•	11
01	2.30000	2.30000	1.30000	1.30000	5.20000	5.40000	3.90000	3.90000	DI
10	1.20000	1.00000	.13000	•13000	•52000	•54000	• 39000	•39000	01
NGI	7.16700	5.06700		•	•	•		-	NGI
MI	5.29000	4.37000	1.04000	1.04000	2.07000	2.03000	1.53000	1.53000	MI
WG	18.10000-	13.30000-	16.50000-	16.50000-	•	•	•	•	WG
SGGUNM	-33000-	-33000-	.35000-	.35000-	•	•	•	_	SGGONM
SGGOOM	•	•	•				1.90000-	1.90000-	SGGOOM
CG	•			•	•		,	2.0 30000	CG ·
CS	•		•	•	•				cs
GS -	20.67000-	10.00000-	•		21.00000-	11.00000-			GS
uSS.	.46300-	.33000-	•	•	•75000-	.75000-	•	•	GSS
SH	•	•	•	•	•		•	•	SH
SB	•	•	•	•	•	_	-	•	SB
MCT	•	•		•	•	-	<u>.</u>		MCT
MMT	1.00000	1.00000		•	•	<u>.</u>	•		MMT
CSIS	•	•	-	•	•	•	•	•	CSIS
515	1.00000	1.00000	•	•		-	•	•	SIS
LNGW	•	•	•	•	•	-	-	•	LNGW
	•	•	-	•	•	•	•	•	LUGA

	MWFS3HI	MWF53MI)Lw	DLWS	DLGSS	DLGSC	DESGGO	DLSGGOS	3.
	55.11	, J.,			52000	5255	523000	020000	
LSI	•	•	•	•	. •	•	• "	•	LSI
LCSI	•	•	•	•	•	. •	•	•	LCS
LLJ	• .	•	•	•	•	•	• .	•	LLJ
LLO	. · · · · · · · ·	•	•	•	•	• •	•	•	LLO
LLS	•	•	•	•	•	•	• .	•	LLS
FVS42	•	•	• • •	•	•	•	•	•	FVS
FVS752		•	•	•	•	•	•	•	FVS
FV5101		•	•	•	•	•	.•	•	FVS
FV\$43		, ,	· · ·	•	•		•		FVS
FVS753				•		•	•		FVS
FV5102		•		•	•		_		FVS
FVS46		•					_	•	FVS
FV\$756					•	•		-	FVS
FVS104	<u> </u>	•			_	-	and the second	_	FVS
FVC42	<u>-</u>				_	_	-		FVC
FVC752		•			<u> </u>	<u>.</u>	<u>-</u>	•	FVC
FVC101	•	•		•	•	•	•	•	FVC
FVC43	•	•	•	•	<u>.</u>	•	•	•	FVC
FVC753	•	•	•	•	•	•	•	•	FVC
FVC102	•	•	•	•	•	•	•	•	FVC
	•	•	•	•	•	•	•	•	
FVC46	•	•	•	•	•	•	•	•	FVC
FVC 75	•	•	•	•	• .	•	•	•	FVC
FVC 104	•	•	•	•	•	•	•	• .	FVC
NRC 1	•	•	•	•	•	• .	•	•	NRC
NRC4	•	•	•	÷	•	•	•	•	NRC
NRC 7	• '	•	• .	• .	•	•	•	• .	· NRC
NRC2	•	•	• ` `	•	• ,	• '	•		NRC
NRC5	•	• •	•	•	•	•	• .	•	NRC
NRCS	•	•	•	•	• .	•	•	5 •	NRC
NRC3		•	• • ,	•	•	•	•	. •	NRC
NRC6	•	•	•	•	•	•	•	•	NRC
NRC9	•		•	•	•	•	. •	•	NRC
NRS1	•	•		•	•	•	•	. •	NRS
NRS4	•	•	•	•	•	•	•	•	NRS
NRS7		•	•		•	•	•	•	NRS
NRS2		•		•	•	•	•	•	NRS
NRS5	•	•	•	•	•				NRS
NRS8	-		•		-	-			NRS
NRS3	•	•				-	-	-	NRS
NRSó	•	•	•		-	•	•	-	NRS
NRS9	•	•	•	•	. •	•	• ,	•	NRS

TABLE LXI (Continued)

	Cust	CSSL	#GSL	GSSL.	SHSL	SBSL	SGGONMSL	SGGODMSL	41
1Leo	1.38000	5.50000	2.05000	2.34000	22.00000	3.26000	10.00000	10.00000	08J1 08J2
0913	.08814	.67500	.09132	.14230	2.09800	.10152	79346	.79346	0B13
08J4	•		•	•	•	•	•	•	0BJ4
CCL	•	•	•	•	•	•	•	•	CCL
CSL	•	•	• .	. •	•	•	• ,	•	CSL
JAL	•	•	•	•	•		•	•	JAL
F3L	•	•	•	•	•	•	•	•	FBL
MRL	•	•	•	•	. •.	•	•	. •	MRL
APL	•	•	•	•	•	•	•	•	APL
MYL	•	•	•	•	• ,	•	•	•	MYL
JNL	•	•	•	•	•	•	•	•	JNL
JYL	•	. •	•	•	• .	•	•	•	JYL
A GL	•	•	•	•	•	•	•	•	AGL
STL	•	•	•	• •	•	•	•	•	STL
OCL	. •	•	•	•	•	•	•	•	OCL
NVL	•	•	•	•	•	•	• .	•	NVL
DCL	•	•	•	• .	•	•	•	•	DCL
oc	•	•	•	•	•	•	•	•	oc
t C	•	•	•	•	•	•	•	•	IC
MRI.	•	•	•	•	•	•	•	•	MRI
API	•	•	•	•	•	•	•	•	API
MYI	•		•	•	•	•	•	•	MAI
JNI	•	•	•	• .	•	•	•	•	INL
JYI	•	•	•	•	•	•	•	•	JYL
AGI	• .	•	• •	•	•	•	•	•	AGI
STI	•	•	•	•	•	•	•	•	STI
oct	•	•	•	•	•	•	•	•	OC1
NVI	•	. •	•	•	•	•	•	•	NAT
TIW	•	. •	•	•	•	•	•	•	TIW
NI	•	· . •	•	•	•	•	• .	• *	NI
PI	•	•	•	•	•	•	•	•	PI
нí	•	•	•	•	•	•	•	•	HI.
11	•	•	•	•	•	•	•	•	11
10	•	•	•	.•	•	•	•	•	DI
NGI	•	•	•	•	• .	. •	•,	•	10
MI	•	•	•	•	•	•	•	•	NG I
W G	•	•	1.00000	•	•	•	•	•	M. M.I
SGGONM	•	•	1.00000	•	•	•	1.00000	•	SGGDNM
SGGGJM	•	•	•	•	•	•	1.00000	1.00000	SGGOOM
CG	1.00000	•	•	•	•	•	•	1.00000	CG
cs	•	1.00000	•	•	•	•	•	•	cs
GS	-	•	•	1.00000	•	•	•	•	GS
GSS	•	•	•		•	•	•	•	GSS
SH	•	•	•		1.02000	•	•	-	SH
5B	•		•	•		1.00000	•	•	SB
MCT	•	•		•	•		•	•	MCT
MMT	•	•	•	•	•	-	-	•	MMT
CSIS	t k 📜 🔻	•	•	-	-	•	•	•	CSIS
SIS	-		•	•	•	-	-	•	818
LNGW	•	•	•	•		-	•	•	LNGW
		-	•		-	. •	-	•	C140=

	CGSL	CSSL	WGSL	GSSL	SHSL	SBSL	SGGONMSL	SGGDDMSL	42
LSI	•	• • • •	•	•	•	•	•	•	LSI
LCSI	•	•	. •	•	•	•.	•	•	LCSI
FFJ	• .	•	•	•	•	•	•	•	LLJ
LLO	•	•	•	. •	•		•	•	LLO
LLS	•	•	•	•	•		•	. •	LLS
FVS42	•	•	•	. •	•	•	•	•	FV542
FVS752	•	•	•	•	• ,		•	•	FVS752
FVSIOL	•	•	•	• •	* •	•		•	FYS101
FV543	•	•	•	•	•	•	•	•	FVS43
FVS753	• .	•		• .	•	•	•	•	FVS753
FVS102	•	. •	•	•	•	•	•	•	FVS102
FVS46	• "	•	•	•	•	•	•	• .	FVS46
FVS756	•	•	•	•	•	•	•	•	FVS756
F.VS104	•	•		•	•	•	•	•	FV5104
FVC42	•	•		•	•	•	•	•	FVC42
FVC752	•	•	•	•	•	•	•	•	FVC752
FVC101	•	•	•	•	•	•	•	•	FVC101
FVC43	•	•	•	•	• '	•	•	•	FVC43
FVC753		•	•	. •	•	•	•		FVC753
FVC102		•	•	•	•	•	•		FVC102
FVC46	•	•		•		-	-	_	FVC46
FVC756	•	•		•	•		•	-	FVC 756
FVC104	•	•			•	-	-		FVC104
NRC1				-		<u>.</u>	Ţ.		NRCI
NRC4				<u>.</u>	_				NRC4
NRC7		_			· ·			•	NRC7
NRC 2	•				•			•	NRC2
NRC5	•	·		<u>.</u>	•	•	•	•	NRCS
NRCB		•	•	ta in the second of the second	•	•	•	• •	NRC8
NRCS	•		•	•	•	• ,	•	•	NRC3
NRC6	•	•	•	•	. •	•	•	•	
NRC9	•	. •	• .	•	•	•	•	• ,	NRC6
	•	•	. •	•	•	•	•	•	NRC9
NRS I	•	•	• .	•	•	•	•	•	NRSI
NRS4	•	•	•	• •	•	•	•	•	NRS4
NRS7	•	•	•	•	,•	•	•	•	NRS7
NR52	•	•	•	•	•	•	•	•	NRS2
NRS5	• ,	•	•	•	•	•	•	•	NRS5
NRS8 .	•	•	•	•	•	•	•	•	NR S8
NRS3	•	•	•	•	•	•	•	•	NRS3
NRS6	•	•	•	•	•	•	. •		NRS6
NRSO	•	•	•	•	•	•	•	• •	NRS9

	GSNJSL	Bac	aic	SJAL .	BFBL	BMRL	BAPL	BMYL	5
i ji	4.00000	.10000-	-00060-	3.00000-	3.00000-	3.00000-	3.00000-	3.00000-	1180
J2	•	. •	•	•	• *	•	•	•	0BJ2
IJ 3	.73523	•	•	•	•		•	•	0833
IJ4	•	•	•	•	• 1	•	•	•	08J4
L , ·	• .	•	. * * •	•	• ,	•	•	•	CCL
iL.	•	•	•	•	•	• **		•	CSL
L	•	•	•	1.00000-		•	• •	•	JAL
iL.	•	•	•	•	1.00000-	•	•	•	FBL
L.	. •	• •	•	•	•	1.00000-	•	•	MRL
L	•	• . •	•	•,	•	•	1.00000-	•	APL
L	•	•	•	•	•	•	•	1.00000-	MYL
IL.	•	•	•		•	•	•	•	JNL .
L	•	•	•	• .	•	•	•	•	JYL
iL	• ,		•	•	•	•	•	•	AGL
L	•	•	•	• .	•	•	•	•	STL
L	•	•	•	•	• '	•	•	•	OCL
L	•	•	•	•	•	•	•	•	NVL
L	•	•	•	•	•	•	•	•	DCL
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1	•	•	•	•	•	•	•		API
1	•	•	•	•		•	•		MYI
I	•	•			•				JNI
I	•		•	•		•	•	•	JYL
I							_	•	AGI
I	•			•		•			STI
1									OCI
I		•							NVI
M	•	•			•		<u>.</u>	•	TIW
		•					<u> </u>		NI
				-			_	_	PI
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SONM	•		•	•	•	•	•	•	WG
300M			•	•	•	•	•	•	SGGON
300M	•	•	•	•	•	•	•	•	SGGOO
	•	•	•	•	•	•	•	•	ČG
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-	1.00000	. •	•	•	•	•	•	•	- G'S
S	1.00000	•	•	•	•	•	• ,	•	GSS
	•	•	•	•	•	•	•	•	SH
	•		•	•	•	•	•	•	SB
T		•	•	•	• '	•	•	•	MCT
T	•			•	•	•	,•	•	TMM
IS	•	•	•	•	•	•	•	•	CSIS
S	•	• .	•	•	•	•	• '	•	SIS
G If	•						•	_	LNGW

	Jälkeö	80	oc at	c BJ	JAL B	FBL 8	MRL BAP	ь вму	L 52
LSI	•		•	•	•	•	•	٠	LSI
LCSI	•		•	•	•	•		•	LCS1
LLJ	•		•	•	•	•	•		LLJ
LLO	•		•	•	•	•	•		LLO
LLS.	•		•	•	•	•	•		LLS
FVS42	•		•	•	•	•	•	•	FVS42
FVS752	•		•	•	•	•	•		FVS752
FVS101	•		•	•	•	•			FVS101
FVS43	•		•	•	•	•			FVS43
FVS753	•		•	•	•	•		•	FVS753
FVS102	•		•		•	•			FVS102
FVS46			•		•	•			FVS46
FVS756	•		•	•	•	•			FVS756
FVS104			•	•	•	•	•	•	FVS104
FVC42	•		•	•	•	•		•	FVC42
FVC752	•		•	•	•	•			FVC752
FVC101	•				•	•			FVC101
FVC43	•			•	•	•			FVC43
FVC753					•	•			FVC753
FVC102			•	•	•	•	•	•	FVC102
FVC46	•			•	•	•			FVC46
FVC 756	•		•	• *	•	•			FVC756
FVC104	•		•	•	•	•			FVC104
NRC1	•		•	•	•	•			NRC1
NRC4	•		•	•					NRC4
NRC7			•		•				NRC7
NRC2			•		•	•			NRC2
NRCS			•		•	•			NRC5
NRCB			•	•	•				NRCB
NRC 3					•	•			NRC3
NRC6	•		•	•	•	•			NRC6
NRC9	•		•	•	•	•			NRC9
NRS1				•	•	•		Ĭ	NRS1
NRS4			•	•	•	•			NRS4
NRS7			_	•	-	•			NRS7
NRS2			•		•	•			NRS2
NRS5	-		•		•	-		•	NRS5
NRS8	•		•	•	•	•		•	NRS8
NRS3	-			-		•		•	NRS3
NRS6	•		•	•		-	•	•	NRS6
NRS9	•		•	•	•	•	•	•	NRS9
MOA	. •		•	-	•	•	•	•	NKSA

	SJNL	HJYL	E AGL	BSTL	BOCL	BNVL	BDCL	BN	6 1
08J1	3.00000-	3.00000-	-00000-	3.00000-	3.00000-	3.00000-	3.00000-		08J1
08J2	•	•	•	•	•	•		•	0BJ2
0973		•	•	•			•	•	0BJ3
0BJ4				•	•				0BJ4
CCL								Ž.	CCL
CSL			•						CSL
JAL			•	•	•	•			JAL
FBL			•		•	-	_		FBL
MRL			•	•		•	•		MRL
APL			•			•	_	_	APL
HYL			•			4.4		•	MYL
JNL	1.00000-							•	JNL
JYL	•	1.00000-	•	•		•	_	•	JYL
AGL			1.00000-			•	•	-	AGL
STL	•	-		1.00000-		•	<u>-</u>	•	STL
OCL	·	<u>.</u>	•		1.00000-	•	•	•	OCL
NVL	-		•	•		1.00000-	•	•	NVL
OCL	•	•	· ·		•		1.00000-	•	DCL
oc.	•	•	•	_	•	•	1.00000	•	OC.
10	•	•	•	•		•	•	•	10
MRI	•	-	•	•	•	•	•	•	MRI
API	•	•	•	•	•	•	•	•	API
MYI	•	•	•	•	•	•	•	•	
INL	•	•	•	•	•	•	•	•	IYM
IAL	• ′	•	•	•	•	•	•	•	INL
AGI	•	•	•	•		•	•	•	JYI
STI	•	•	•	•	• • • • • • • • • • • • • • • • • • • •	•	•	•	AGI
120		•	•	• •	•	•		•	STI
NVI	•	•	•	• '	•	•.	•	•	OC I
	•	•	•	•	•	•	•	•	IVN
TIW NI		•	•	•	•	•	• .	•	TIW
	• • • • • • • • • • • • • • • • • • • •	• •	•	•	•	•	• '	1.00000-	NI
19		•	•	•	•	•	•	•	PI
HI	•	•	•	•	•	•	•	•	HI
11	•	•	•	•	•	•	•	•	11
	• •	•	•	•	•	•	•	•	DI
01	•	•	•	•	•	•	•	•	10
NGI	•	•	•	•	•	. •	•	•	NGI
MI	•	•	•	•	•	•	•	•	MI
WG	• •	•	•	•	•	•	•	•	WG
SGGJNM	•	•	•	•	•	•	• .		SGGONM
SGGOOM	•	•	•	•	•	•	•	•	SGGOOM
CG	•	•	•	•	•	•	•	•	CG
cs	•	•	•	•	•	•	•	•	CS
GS GS	•	•	•	•	•	•	• •	•	GS
GSS	•	•	•	•	•	•	•	•	GSS
SH	•	•	•	•	•	•	•	•	SH
SB	•	•	•	•	•	•	•	•	SB
MCT	•	•	•	•	•	•	•	•	MCT
MMT	•		•	•		•	• ;	•	MMT
CSIS	•	. •	•	•	•	• . •	•	•	CSIS
515	•	•	•	•	•	•	•	•	SIS
LNGW	• •	• ,	•	•	•	• •	•		LNGW

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	8151 F	OR MITLERES					PAGE 1	6 - 75/070	
	3 J NL	HJYL	EAGL	SSTL	BOCL	BNVL	BDCL	ви	52
LSI		•	•	•	•		•	•	LSI
LCSI	•	•	•		•	•	•	•	LCSI
LLJ	•	•	•	• • • •	•	•	•		LLJ
LLO	•	•	•		. •	•	•		LLO
LLS	•		•	•	•	•	•	•	LLS
FVS42		•	•		•	•	•	• * *	FVS42
FV5752	•	•			•	•	•		FVS752
FVS101	•	•		•	•	•	•		FVS101
FVS43	•	•	•		•	•	•	•	FVS43
FVS753	•	•		•	•	•	•	•	FVS753
FVS102		•	•	•	•	• '		•	FVS102
FVS46	•	•	•	•	•	•			FVS46
FVS756		•	•	•	•	. •	•	•	FVS756
FVS104		•	•		•	•	•	•	FVS104
FVC42	•	•			•	•	•	•	FVC42
FVC752		•			•	•	•	•	FVC752
FVC101		•	•	•	•				FVC101
FVC43	•	•		•	•	•	•	•	FVC43
FVC753					•	•			FVC753
FVC102		•			•	•	•		FVC102
FVC46	•	•		•		•		<u>.</u>	FVC46
FVC756	•	_			_		_	-	FVC756
FVC104					•		•		FVC104
NRC1	_						_		NRCI
NRC4			•	•	•		•		NRC4
NRC7		_				_		-	NRC7
NRC2	-								NRC2
NRC5		•					¥ _	<u>.</u>	NRC5
NRCS							-	-	NRCB
NRC3								• •	NRC3
NRC6	-		•		Ţ.	_			NRC6
NRC9									NRC9
NRS1		T.				· · · · · · · · · · · · · · · · · · ·			NRS1
NRS4		•				•	·		NRS4
NRS7	•	<u> </u>			•	•	•	•	NRS7
NRS2	•			•	•			•	NRS2
NRS5	•			•	-	•	•	-	NRS5
NRSB	•	-		•	•	•	•	•	NRS8
NRS3	•	•	•	•	•	•	•	•	NRS3
NRS6	•		•	•	-	•	•	-	NRS6
NRS9	•	•	•	•		•	•	•	NRS9
MKDA	•	· •	•	•	.•	•	•	•	MUDA

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	űΡ	3	н	et	90	80	BN	6 6	вм	NGFCS42	71
OBJI			٠.	•		•				2050.8800-	08.11
0975			•	• 1				•		•	0815
0813			•					•			0813
0834								<u>.</u> 1			OBJ4
CCL				•				•		•	CCL
CSL											CSL
JAL										·	JAL
FBL			-					_	•		FBL
MRL	100		-	_				•	•	•	MRL
APL			<u>.</u>		•			•	•	•	APL
MYL			•	•	•	•		•	•	•	
JNL			•	•	•	•		•	•	. •	MYL
JYL	•		•	•	•	•		•	•	•.	JNL
			·••	•	•	•		•	•	•	JYL
AGL			•	•	•	•		•	•	•	AGL
STL	•		•	•	•	•		•	•	•	STL
UCL	•	•	•	•	•	•		•	•	•	OCL
NVL	•	•	•	•	•	. •		•	•	•	NVL
ÐCL.		'	•	•	•	•		•	•	•	DCL
υĊ	•	•	•	•	•	•		•	• ,	•	OC
IC)	•	•	•	•		•	•	13969.480	1C
MRI		•	•	•	•	•		•	•	•	MRI
API		•	•	•	•	•		•	•	•	AP I
IYM		•	•	•	•			•	•	•	MYI
INL			•	•		•		•	•	•	JNI
JYI			•	+•1				•	•	4	JYI
AGI				•			The second second		•		AGI
STI			•					•	•		STI
OCI											OCI
IVN			•	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1							NVI
TIW		in the second						_			TIW
NI					•			<u>.</u>	•	•	NI
ΡI	,	00000-						•	•	•	PI
HI	•		1.00000-	•	•			•	•	•	
11	• • •		•	1.00000-	•	•		• .	• .	•	HI
10			•	1.00000-	٠,٠	00000-		•	•	•	II
01			•	•			00000-	•	•	•	DI
		•	•	•	•			•	•	•	OI
NGI	•		•	•	•	•	1	.00000-	•	•	NGI
1 M	•		•	•	•	•		•	1.00000-	•	MI
WG			•	•	•	•		•	•	•	WG
SGGOI		,	•	•	•	•		•	•	•	SGGONM
SGGC	OM .		. •	•	•	•		•	•	•	SGGOOM
CG	-	•	•	•	•	•		•	•	•	CG
cs	•	•	•	•	•	•		•	÷ "	•	CS
GS		•	• •	• "	•	•		•	. •	•	GS
GSS			•	•	•	. •		•	•	•	GSS
SH			•	•		•		•	•		SH
SB	•	r garage	•	• 1					•		SB
MCT			•	•				•	•	•	MCT
MMT			•	•		-		•			MMT
CSIS			•	•				•			csis
SIS				• • • • • • • • • • • • • • • • • • • •						•	SIS
LNGW			•			-		<u>.</u>		10000.000-	LNGW
- · · · · ·		•	-	-	•			-	▼		F-40=

	dF	•		дн		•	3 I		во		80			BNG		ВМ		NG	C542		72
LSI					•													1	.0000	0	LSI
LCSI																					LCSI
LLJ		• 1			•		•												•		LLJ
LLD .					•		٠.					•							•		LLO
LLS							•					. '						: :			LLS
FV542		• .			•			11				•		٠.							FVS42
FVS752		•												•							FVS752
FVS101			•		•																FV5101
FVS43									٠.												FVS43
FV\$753					•												100				FVS753
FVS102					•												100				FVS102
FVS46					•																FVS46
F VS 756																-					FVS756
FVS104		•			1		-		-					•		•	. 45		•		FVS104
FVC42					-		-					-		•		•			•		FVC42
FVC752		•			•		•		•			•		•		•			•		
FVC101		•			•		•		•			•		•		•			•		FVC752
FVC43		•			•		•		•			•		•		•			•		FVC101
FVC753		•			•		•					•		•		•			•		FVC43
FVC102		•			•		•		•			•		•		•			•		FVC753
FVC102		•			•		•		•			•		•		•			• :		FVC102
		•			•		•		•			•		•		•			• .		FVC46
FVC756		•			• .		•		•			•		•		•			• ' .		FVC756
FVC104		•			•		•		•			•.		•		•			• .		FVC104
NRC1		•			•		•		•			•		•		•		1	.0000	0	NRC I
NRC4		•			•		•		•			•		•		•			•		NRC4
NRC7		•			•		. •		•			•		•		•			•		NRC7
NRCZ		•			•		•		•			•		•		•			• .		NRC2
NRC5		• '			•		•		•			•							•		NRC5
NRC8		•			•		•		. •			•							•		NRCB
NRC3		• .			•		•		•			•		• '				100	•		NRC3
NRC6		•			•		•		•			•		•		,			•		NRC6
NRC9		•			•		•		٠.			•		•				· .	•		NRC9
NRS1	4	٠.			•		•		•			•		٠.					•		NRS1
NRS4					•		•		•			•		•				·			NRS4
NRS7					•		•														NRS7
NRS2					•		•							•				-			NRS2
NRS5		•					•							•							NRS5
NRS8							•														NRS8
NRS3							•														NRS3
NRS6																			-		NRS6
NRS9																•					NRS9
		-			-				•			-		•		•					14100 5

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	NGVC342	NGFCS752	NGVC\$752	NGFCS101	NGVCS101	NGECS43	NGVCS43	NGFCS753	81
OBJI	-30090-	4367.3000-	.47330-	2529.8500-	•5030 0 -	3070.3200-	.36090-	6550.5500-	0831
0878	•	• •	•	•	. •	•	•	•	DBJ2
0913	•	•	. •	•	•	•	1 · 1 • · · · · · · · · · · · · · · · ·	•	08J3
08J4	•	•	10 10 10 • 10 10 10 10 10 10 10 10 10 10 10 10 10	•	•	•	•	•	08J4
CCL	•	•	•	•	• .	• .	•	•	CCL
CSL		•	•	•	- 1 • 1 • 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 ·	•	•	•	CSL
JAL	•	•	•	• .	• 1	. • • •	, , · · · · · · · · · · · · · · · · · ·	• • •	JAL
FBL	•	•	•	•	, •	•	• ,* .	•	FBL
MAL	•	•	•	•	•	• .	•	•	MRL
APL	•	• •	•	•		• ,	• ' ,	•	APL
MYL	•	•	• ,	•	• "	•	•	• .	MYL
JNL	•	•	•	•	•	•	•		JNL
JYL	•	•	•	•	• .	•	•	•	JYL
AGL	•	• .	•	•	•	•	•	• •	AGL
STL	•	•	•	•	•	•		•	STL
OCL	•	•		. •	• * *	•	•		OCL
NVL	•	•	•	•	•	•	•	•	NVL
UCL	•	•	•	•	•	•	•		DCL
υC			•		•			-	OC .
10	•	29852 280		16441.190		20954.220		44778.420	IC
MRI			•			-	-	•	MRI
API	-		•	-		<u> </u>	•		API
MYI			-			<u> </u>	•	, • ,	MAI
INL					<u>.</u>	<u>.</u>	•		INL
JYI	· · · · ·	·	•		# - s - 1	· •	• .	•	176
AGI				•	•	•	. •	•	
STI	•	. •	•	•	•	•	•.		AGI
oci	•	. •	• . •	•	•	•	•	•	STI
	•	•	. •	•	•	•	•	g • compared to the	OC I
NVI TIW	1.00000-	•	1.00000-	•		•	•	•	NAI
	1.00000-	•	1.00000-	•	1.00000-	• ,	1.00000-	•	TIW
NI	•	P * * * * *	• * •	•		•	•	•	NI
PI		•	•	•	• • • • • • • • • • • • • • • • • • • •	•	• 1	•	PI
HC .	•	• *	•	•	•	• *	•	•	HI
11	•	• .	• '	•	•	•	•	•	11
DI	•	•	•	•	•	•	•	•	D I
10	. • .	•	•	•	•	•	•	•	OI
NGI	* •	• .	•	•	•	•	•		NGI
MI	•	• ,	•	•	•	•	•	• • •	MI.
WG	•	•	•	•	•	•	. •	•	⊯G
SGGONM	•		•	•	•	•		• :	SGGONM
SGGDDM	•	•	•	•	•	•	•	•	SGGOOM
CG	.•	•	•	•	•	•	•	•	CG
CS	•	• .	•	•	•	•	• *	•	cs
GS	•	•	•		•	•	•		GS
GSS	•	•	•	•	•	•	•		GSS
SH	•	•	•	•	•			•	SH
SU	•		•	•	•	•	•	-	SB
MCT	•		•	•	•		•	-	MCT
MMT		•		•				•	MMT
CSIS			-	•		•		•	CSIS
SIS	-			• • • • • • • • • • • • • • • • • • • •	-	•	-	•	SIS
LNGW	1.00000	20000.000-	1.02000	12000.000-	1.00000	15000.000-	1.00000	30000.000-	
C.10 #	1,55000	20000.000-	1.03000	12000100	1.00000	13000.000-	1.00000	30000.000	LNGW

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									•
			•						
	NGVCS42	NGFC5752	NGVCS752	NGFCS101	NGVCS101	NGFCS43	NGVCS43	NGFCS753	8 2
LSI	•	1.00000	•	1.00000	•	1.00000	•	1.00000	LSI
LCSI	•	•	•	• :	•	•	•	•	LCSI
LLJ LLO	•	•	•	•	•	•	•	•	LLJ
LLS	•	•	•	•	•	•	•	•	LLO
FVS42	1.00000		•	•		•	•	•	LLS FVS42
FVS752	1.00000	•	1.00000	•	•	•	•	•	
FVS101	•	•			1.00000	•	•	•	FVS752 FVS101
FVS43	•			•	1.00000	•	1.00000	•	FVS43
FVS753	-	· .	· ·				1.00000	•	FVS753
FVS102		•	•	•				•	FVS102
FV546	•		•		•	•	· · ·		FVS46
FVS756	•	•	•	•	• ,	•	•		FVS756
FVS104	•	•	•	•	•	•	•	•	FV5104
FVC42	•	•	. •	•	•	•	•		FVC42
FVC752	•	• .	•	•	• '	•	•	•	FVC752
FVC101	•	•	•	•	•	•	•	•	FVC101
FVC43	•	•	•	•	•	•	•	•	FVC43
FVC753	• •	•	•	•	•	•	•	•	FVC753
FVC102	. •	• • ;	•	. •	•	•	•	•	FVC102
FVC46	•	•		•	, . •	•	•	•	FVC46
FVC756	•	•	•	• '	•	•	•	•	FVC 756
FVC104	.•	. •	•	•	• '	•	•	•	FVC104
NRC1 NRC4	•	1.00000	•	•	•	•	r • to the second	•	NRC1
NRC4	•	1.03000	•	1.00000.	•	•	•	•	NRC4
NRC2	•	•		1.00000	•	1.00000	•	•	NRC7
NRC5	· •		•	· • •	• • • • • • • • • • • • • • • • • • • •	1.00000	•	1.00000	NRC2
NRCB	•	· •	•	•	• ·	•	•	1.00000	NRCS NRC8
NRC3					•		•	•	NRC3
NRC6	•			•				•	NRC6
NRC9		•	•	•			•		NRC9
NRS 1		•	•	•	•	•		•	NRS1
NRS4	•	•	•	•	•	•	•	•	NRS4
NRS7	. •	•	•	•	•	•	•	•	NRS7
NRS2	•	• *	•	. •	•	•	•	•	NRS2
NRS5	•	•	•	• ′	•	•	•	•	NRS5
NRSS	•	* * * * * * * * * * * * * * * * * * * *	. •	• '	• .	• ,	•	•	NRSB
NRS3	•	•	•	•	•	•	• .	•	NRS3
NRS6	•	•	•	•	•	•	•	. •	NR\$6
NRS9	•	•	•	•	•	•	•	•	NRS9

	NGVCS75 3	NGFCS102	NGVCS102	NGFC546	NGVCS46	NGFCS 756	NGVCS756	NGFCS1Q4	91
0831	.47380-	5059.7200-	.5030U-	6152.6400-	.36090-	13101.900-	.47380-	10119.440-	0BJ1
0875	•		•	•	• •	•	•	. •	0812
0813	•	•		•	• '.	• .	•	•	0BJ3
OBJ4	•	•	•	•	•	• •	•	•,-	0BJ4
CCL	• .	•	•	•	•	•	•	•	CCL
CSL Jal	•	•	• ,	•	•	•	• •	•	CSL
FBL	•	•	•	•	• • •	•	•	•	JAL .
MRL	• •	•	• •	•	•	•	•	• • •	FBL MRL
APL	•	•	•	•	•	•	•	•	APL
MYL		-	-				•	•	MYL
JNL					•				JNL
JYL	•			•					JYL
AGL	•	•	•			•	-		AGL
STL	•	•	•					•	STL
DCL	•			•	•				OCL
NVL	•	•	•	•	•	•	•		NVL
DCL	•		•		•	•	•	•	DCL
OC		• '	•	•	•	•			oc
10		32682.380		41908.440	•	89556.840	•	65764.760	1C
MRI	•	•.	•		•	•	•	•	MR I
API.	. •	•	•	•	•	•	•	•	AP1
MY [•	•	•	•	•	•	•	•	MYI
INL	•	•	• '	•	•	•	•	•	JNT .
JYI	•	•	•,	•	•	•	•	•	JYI
AGI	•	•	•	•	•	•	. •	•	AGI
STI	• •	•	•	•	•	•	• *	•	STI
OCI	• 20	•	•	•	•	• '.,	•	•	OCI
NVI	. •	•	•	•	•	. •	•	•	NVI
WIT	1.00000-	•	1.00000-	•	1.00000-	•	1.00000-	•	TIW
NI	• .	. •	. •	•	•	•	• * * * *	• •	NI
PI	• •	•	•	•	•	. •	•	•	PI
HI	• '	•	•	• •	• •	•	•	•	HI
II	•	•	•	•	•	•	. •	•	11
DI	•	•	•	•	•	•	•	•	DI
01	•	. •	•	•	•	•	•	•	01
NGI	•	• . •	•	•	• •	•	•	•	NGI
MI	•	•	•	•	•	•	•	. •	MI
WG	•	•		•	• .	• .	•	•	WG
SGGONM	•	•	•	•	•	•	•	•	SGGONM
SGGDOM CG	•	•	•	•	•	•	•	•	SGGOOM
CS CS	•		•	•	•	•	•	•	CG
GS	•	•	•	•	•	•	•	•	CS GS
GSS	•	•	•	•	•	•	•	•	GSS
SH	•	-	•	<u>.</u>		•	•	•	SH
58		•	• .	· •		•	•	•	SB
MCT	-		•	:	·	•	•	•	MCT
MMT		•	•			-		-	MMT
CSIS				•	. •	<u>.</u>			CSIS
SIS	•	•	•		•			•	SIS
LNGW	1.00000	25000.000-	1.00000	30000.000-	1.000,00	50000.000~	1.00000	50000.000-	LNGW

	NGVCS753	NGFCS102	NGVC5102	NGFCS46	NGVC546	NGFCS 756	NGVCS756	NGFCS104	92
LSI	•	1.00000	•	1.00000	•	1.00000	•	1.00000	LSI
LCSI	•		•	•	•	•	•	•	LCSI
LLJ	•	•	•	•	•	•	• ,	•	LLJ
LLJ	•	and a second	. •	•	•	. •	•	•	LLO
LLS	•	•		•	•	• 5	•	•	LLS
FVS42	•		•	•	•	• • •	•		FVS42
FVS752	•	•		•	• .	•	•	•	FV5752
FVS101	•			•	•	•	•	•	FVS101
FVS43	•	•		• ·	•	•	•	•	FVS43
FVS753	1.00000	•	•	•	•	•	•	•	FVS753
FVS102	•		1.00000	•	•	•	•	•	FVS102
FVS46	•	•	•	•	.1.00000	•	•	•	FVS46
FVS756	•		•	•	•	•	1.00000	•	FV\$756
FVS104	•	•	•	•	• /	•		•	FVS104
FVC42	•	•	• .	• .	•	•	•	•	FVC42
FVC752	•	•	•	•	•	•	•		FVC752
FVC101			•	•	•	•	•	•	FVC101
FVC43	•		•	•	•	•	•		FVC43
FVC753		•		•	•	•			FVC753
FVC102	- •		•	•	•	•	•	•	FVC102
FVC46	•	•	•		•	•	•	•	FVC46
FVC756	_							•	FVC756
FVC104	-			•	•	_		-	FVC104
NRCI				•		•		-	NRC1
NRC4				•					NRC4
NRC7	_		-						NRC7
NRC2				•					NRC2
NRC5	• • •		-						NRC5
NRCB	Tarana in the same of the same	1.00000	-	•	•			-	NRCB
NRC3				1.00000	<u>-</u>	_			NRC3
NRC6	Ţ.		-		•	1.00000			NRC6
NRC9	· ·			•			· .	1.00000	NRC9
NRS1	•	-	-	•	•		•	•	NRS1
NRS4	•		•		-	<u>.</u>			NRS4
NRS7	•	<u>.</u>		•	-	Ž		•	NRS7
NRS2	•	• • • • • • • • • • • • • • • • • • •	•	-	-	-	•	•	NRS2
NRS5	•	<u>.</u>	•	-	-	-	•	-	NRS5
NRS8	•	•	-	· •		•	-	•	NRS8
NRS3	•	•	•	•	•	•	•	•	NRS3
NRS6	•	•	•	•	-	-	•	•	NRS6
	•	•	•	•	•	•	•	•	NRS9
NRS9	•	•	•	•	•	•	•	•	4423

	NGVCS104	NGFCC42	NGVCC42	NGFCC752	NGVCC752	NGFCC101	NGVCC101	NGFCC43	101
08J1	•50300-	5815.0000-	•65070-	11646.240-	•92760-	6087.2100-	.83460-	13138.560-	0BJ1
0832	.50500	301310000	•050,0-	11040.240-	. 72/50-	0007.2100-	.03400-	13138.500-	08J2
0813		•	•			<u>.</u>	•	•	0833
UBJ4							•	•	0834
CCL	i e e e e e					•	•	•	CCL
CSL			•	•			•		CSL
JAL			·			•	•	• • • • • • • • • • • • • • • • • • • •	
FBL	•			<u>.</u>		•	• •	•	JAL
MRL		•	•	•	•	•	•	•	FBL
APL		•	•			•	• •		MRL
MYL	the second second	•	. •	•	•	•	•	•	APL
JNL	•		•	•	•.	•	•	•	MYL
JYL	•	•	•	•	•.	•	•	•	JNL
	•	•	•	•	•	•	•	•	JYL
A GL	•	. •	•	•	•	•	•	•	AGL
STL	•	•	•		•	•	•	•	STL
OCL	• • • • • • • • • • • • • • • • • • • •	•	•	•	•	•.	•	•	DCL
NVL	•	•	•	• •	•	•	•	•	NVL
DCL	•	•	•	, ,	•	•	•	•	DCL
oc .	•		<i>i</i> , •	•	•	• . • . • . • . • . • . • . • . • . • .	• ,	•	oc .
IC	• ,	29711.700	•	61746.620	•	32175.570	•	67442.550	IC
MRI	•	• .	•	•	•	•	•	•	MRI
API	•	•	•	•	•	•	•	•	API
MYI		•	•	•	•	• •	•	•	HYI
INL	•	•	•	•	•		•	•	INL
JYI	•	•	•	•	•		•	•	JYI
AGI	•	•	•	•	• 6	•	•	•	AGI
STI	. •	•	•	•	•	•	•		STI
100	• • • • • • • • • • • • • • • • • • • •	•	· · · · · · · · · · · · · · · · · · ·						OC I
NVI	•		•	•	•	•			NVI
TIW	1.00000-	•	1.00000-	•	1.00000-	•	1.00000-		TIW
NI	•	-	•	· ` •					NI
PI	•	•	•			•			PI
HI :	•	•						in a Line in the	HI
11		tion is a second of							11
10	•								DI
OI.	•	•	•					•	01
NGI	•	•	•						NGI
MI					•		•	•	MI
WG	<u> </u>	- · · [<u>.</u>			•	
SGGONM		-	•		•	•	•	•	WG
SGGOUM	•	•	-	•	•	•	•	•	SGGDNM
CC	<u>.</u>	•	•	•	•	•	•	•	SGGDOM
CS		•	•	•	•	•	• .	•	CG
GS	•	•	•	•	• ,	• ,	•	•	cs
GSS	•	•	•	. • .	•	•	•	•	GS
	•	•	•	•	•	•	*•	•	GSS
SH		•	•	•	•	•	•	•	SH
SB	•	•	• •	•	•	•	•	• •	SB
MCT	•	•	•	•	. •	• '	•	•	MCT
MMT	•	•	• "	•	•	•	•	•	MMT
CSIS	•	•	. •	•	. •	• 1	10 · 10 · 10 · 10 · 10 · 10 · 10 · 10 ·	•	CSIS
SIS	•	• '	<i>x</i> •	•	•	•	•	* * * • • * · ·	212
LNGW	1.00000	10000.000-	1.00000	20000.000-	1.00000	12000.000-	1.00000	15000.000-	LNGW

	NGVCS104	NGFCC42	NGVCC42	NGFCC752	NGVCC752	NGFCC101	NGVCC101	NGFCC43	102
LSI				•					LSI
LCSI		1.00000		1.00000	•	1.00000		1.00000	LCSI
LLJ		•						1.00000	LLJ
LLO								•	LLO
LLS								•	LLS
FVS42								•	FVS42
FVS752					in the same			•	FVS752
FVS101								•	FVS101
FVS43	-							•	FVS101
FVS753				*			•	•	FVS753
FVS102							•	•	FVS102
FV546	and the second	•			•			•	FVS46
FVS756	•						•	•	FVS756
FVS104	1.00000					-		. •	FVS104
FVC42	•		1.00000		·	•	•	•	FVC42
FVC752					1.00000	•	<u>.</u>		FVC752
FVC101		-	•	_		•	1.00000	•	FVC/52
FVC43						•	1.00000	•	FVC43
FVC753						•	•	•	FVC753
FVC102	· · · · · · · · · · · · · · · · · · ·			•		•		•	FVC102
FVC46		•				•	•	• :	
FVC756	I			_		•	•	•,	FVC46
FVC104		•				•	•	•	FVC756
NRC 1		<u> </u>				•	•	•	FVC104
NRC4	i i i	in the state of th			•	•	•		NRC1
NRC7		•		•	•	•	•	•	NRC4
NRC2			•			· 6	•	•	NRC7
NRC5			•	•	•		•	•	NRC2
NRCB	•		•	•		• ,	•	•	NRC5
NRCS		•	•	• ,	•	•	•	•	NRCB
NRC6	•	•	•	•	•	•	•		NRC3
NRC9	•	•		•	•	•	•	- 1	NRC6
NRS1	· · · · · · · · · · · · · · · · · · ·	1.00000	•	•	•	• • •	•.	•	NRC9
NRS4	•	1.00000	•	1.00000	•	•	•	•	NRS1
NRS7		•	•	1.00000	•	•	•	•	NRS4
NRS2	•	•	•	•	•	1.00000	•	•	NRS7
NRS2 NRS5	. •	•	•	•	•	•	• .	1.00000	NRS2
		•	•	•	•	•		•	NRS5
NRSB	•	. •	•	•	•	•	•	•	NRS8
NRS3	•	•	•	•	•	•	•	•	NRS3
NRS6	•	•	•	• ,	•	•	•	•	NR S6
NRS9	•	•	•	•	•	• .	•	•	NRS9

	NGVCC43	NGFCC753	NGVCC 753	NGFCC102	NGVCC102	NGFCC46	NGVCC46	NGFCC756	11
BJ 1	.69570- 17	7469.360-	-92760-	12174.420-	-83460-	26277.120-	-69570-	34938.720-	OBJI
BJ2		•	•	•	•	•	•	•	OBJ2
313	•	•	•	•	• 1	•	•	•	0873
334	. •	•	•	•	•	•	• , .	•	OBJ4
L	•	•	• •	•	•	•	•	•	CCL
iL	in en tropies de la companya de la c	•	•	•	•	•	• • • • • •	•	CSL
L	• ".	•	•				•	•	JAL
L	•	•	•	•	• •	•	•	•	FBL MRL
		•		• •		•	•		APL
L L		. <u>.</u>	•						MYL
L		•			•				JNL
L		•	, ,				•	•	JYL
Ŀ					-			•	AGL
_			•				•		STL
Ē.	•	•		and the second second second		•			OCL
Ē					•	•		•	NVL
Ĺ		•			•	•	•		DCL
-		•		•		•	•		OC
	. 9.	2619.930		64351.140	•	134885.10	•	185239.86	10
I		•		• *	•	•		•	MRI
T.		•	•	•	•			•	API
1	•	•	•	•	•	•		•	IYM
I	•		•	•	• • • • •	•	•	•	INL
I	•	•	•	ina ing pagamatan	•	•	•	•	IYL
I		•	•	•	•	•	•	• • •	AGI
1	•	•	•	•	•	•	•	•	STI
1	•	•	•	•	•	•	•	•	OCI
I	• •	•	• * • * • * • * • • • • • • • • • • • •	•	•	1. A	•	•	NVI
W	1.00000-	•	1.00000-		1.00000-	•	1.00000-	•	TIW
	•, .	. •	•	•	•	• • •	•	•	NI
	•	•	•	• , ,	•	•	•	•	PI
grade agrada	•	* • 1+ 1 · 1	•	•	•	•	•**	•	HI
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1	•	•	•	•	•	•	• • •	• •	NGI
	•	•	• • • • • •	•	•	• ;	•	•	MI
	•	•	•	•	• , , , ,	•	•	•	#G
GUNM	•	•	•	•	•	•	•	- in - 1 • · · · · · · · · · · · · · · · · · ·	SGGONE
GUUM	•	•	•	•	•	•	•		SGGOOM
i .	• '	• •	•	•	•	•	•	•	CG
	•	•	•	•	•	•	•	•	CS GS
s	•	•		•	•	•	•	•	GS
5	•	• ·	<u> </u>	•	•	•	•	•	SH
	•		·	•	•	•		•	SB
т	•	-	•		•	•	•	•	MCT
T	•		• · · ·	•		•	_	•	MMT
15	•		•			•	•		CSIS
S			·			•		<u> </u>	SIS
S IGW	1.00000 30	0000.000-	1.00000	25000.000-	1.00000	30000.000-	1.00000	56000.000-	LNGW

	NGVCC43	NGFCC753	NGVCC753	NGFCC102	NGVCC102	NGFCC46	NGVCC46	NGFCC756	112
LSI			_			_	_		LSI
LCS1		1.00000		1.00000		1.00000	-	1.00000	LCSI
FF7			•			•	i	100000	LLJ
LLO				•	•				LLO
LLS			•				-		LLS
FV542									FVS42
FVS752		-							FVS752
FVS101			•						FVS101
FVS43	The state of the s	•		•	-				FVS43
FV5753	•	-	•						FVS753
FVS102		•				-			FVS102
FVS46		<u> </u>	•			-	1	_	FVS46
FVS756	_	Ī	-		-				FVS756
FVS104	•		<u>.</u>					· -	FVS104
FVC42	-			_	-		-		FVC42
FVC752		<u>.</u>	•	<u>.</u>	•	-	_		FVC752
FVC101	•	<u>.</u> .	<u>.</u>	-			_	•	FVC101
FVC43	1.00000	•	•	•	•	-	•		FVC43
FVC753		•	1.00000	•		-	•	•	FVC753
FVC102	•	•	1.00000	•	1.00000			e e e	FVC102
FVC46	•	•	•	•	1.00000	•	1.00000	•	FVC46
	•	•	•	•	•	•	1.00000	•	FVC756
FVC 756	•	•	•	•	•	•	•	•	FVC104
FVC104	•	•	•	•	•	•	•	• 1	
NRC 1	•	•	. •	•	. •	•		• :	NRC1
NRC4	•	•	•	•	•	•	•		NRC4
NRC7	•	•	•	•	•	•	•	•	NRC7
NRC 2	•	•	•	•	•	•	•	•	NRC2
NRC5	•		•	•	•	•	•	•	NRC5
NRCB	• •	•	•	• •	•	•	•	•	NRC8
NRC3	. •		•	•	•	•	•	•	NRC3
NRC6	•	•		. •	•	•	•	• •	NRC6
NRC9	•	• ,	•	•	•	ţ. 1	• .		NRC9
NRS1	•	•	•	•	•	•	•	•	NRSI
NRS4	•	•	•	•	•	•	•	•	NRS4
NRS7	•	•	•	• .	•	. •	•	•	NRS7
NRS2	• "	•	•	. •	•	•	•	•	NRS2
NRS5	•	1.00000	•	•	•	•	•	•	NRS5
NRSB	•	•	• .	1.00000	•	•	•	•	NR S8
NRS 3	•	•	•	• .	•	1.00000	• 1	• ,	NRS3
NRS6	•	•	•	•	• ,	•	•	1.00000	NRS6
NRS9	•	•	•	•	•	•	•	• •	NRS9

	NGVCC756	NGFCC104	NGVCC104	RHSCSTA	RHSCSIB	RHSCSIC	RHSC52A	RHSCS2B	121
08.1	. 92760-	24348.340-	.83460-	•	•	•	•	•	08J1
0BJ 2	•	•	•	•	•	•	•	•	OBJ2
0813	•	•		•	•	•	•	the same of the same of	08J3
08J4	•	•	•	• •	•	•	•	•	08J4
CCL	•	•	•	560.00000	560.00000	560.00000	1440.0000	1440.0000	CCL
CSL	•	•	•	•	•	•	•	•	CSL
JAL	• •	•	•	165.00000	165.00000	165.00000	143.00000	143.00000	JAL
FBL	•	•	•	150.00000	150.00000	150.00000	130.00000	130.00000	FBL
MRL	•	•	. •	165.00000	165.00000	165.00000	143.00000	143.00000	MRL
APL	•	•	•	187.00000	187.00000	187.00000	165.00000	165.00000	APL
MYL	•	•	•	187.00000	187.00000	187.00000	165.00000	165.00000	MYL
JNL	•	•	•	209.00000	209.00000	209.00000	187.00000	187.00000	JNL
JAL	•	•	•	209.00000	209.00000	209.00000	187.00000	187.00000	JYL
AGL	•	•	•	209.00000	209.00000	209.00000	187.00000	187.00000	AGL
STL	•	•	•	209.00000	209.00000	209.00000	187.00000	187.00000	STL
DCL	•	*•	•	203.00000	209.00000	209.00000	187.00000	187.00000	OCL
NVL	•	•	•	187.00000	187.00000	187.00000	165.00000	165.00000	NVL
DCL	•	•	•	165.00000	165.00000	165.00000	143.00000	143.00000	DCL
oc	•	•	•	•	•	•	• *	•	OC .
IC	•	128702.28	•	•	•	•	•	• *	IC
MRI	•	•	. •	1066.0000	2000.0000	1333.0000	1600.0000	3000.0000	MR I
API	•	•	•	1066.0000	2000.0000	1333.0000	1600.0000	3000.0000	API
MYI	•	•	•	1066.0000	2000.0000	1333.0000	1600.0000	3000.0000	MYI
INL	•	• 1		1066.0000	2000.0000	1333.0000	1600.0000	3000.0000	JNI .
JYL	• •	•	•	1066.0000	2000.0000	1333.0000	1600.0000	3000.0000	IYL
AGI	•	•	•	1066.0000	2000.0000	1333.0000	1600.0000	3000.0000	AGI
STI	•	•	•	1066.0000	2000.0000	1333.0000	1600.0000	3000.0000	STI
nci ;	•	• • • • • • • • • • • • • • • • • • • •	•	1066.0000	2000.3000	1333.0000	1600.0000	3000.0000	OC 1
NVI		•	•	1066.0000	2000.0000	1333.0000	1600.0000	3000.0000	NAI
TIW	1.00000-	•	1.00000-	•	•	•	•	•	TIW
NI	•	•	•	•	•	• • • • • • • • • • • • • • • • • • •	•	•	NI
PI	•	•	•	•, ,	• .	•	•	•	PI
HE	•	•	• '	•	•	•	•	•	HI
11	•	•	•	•	•	•	•	•	II
10	•	•	•	•	•	•	•	•	DI
01	•	•	•	• '	•	•	•	.•	OI
NGI	•. ,	•	•	•	•	. •	•	•	NGI
MI	•	•	•	•	•	•	•	•	MI
wG	•	•.	•	•	• .	•	• , •	•	WG
SGGUNM	•	•	•	•	• • .	•	•	• .	SGGUNM
SGGOOM	•	• • • • • • • • • • • • • • • • • • • •	•	• .	•	•	•	•	SGGDOM
CG	•	•	•	•	•	•	•	. •	CG
cs	•	· •	•	•	•	•	•	• ,	cs
GS	•	•	• •	•	•	•	•	•	GS
GSS	•	•	. •	•	•	•	• *	•	GSS
SH	•	•		•	•	•	• .	•	SH
SB	•	•	•				•		SB
MCT	•	•	•	560.00000	560.00000	560.00000	1440.0000	1440.0000	MCT
MMT	•	•	•	560.00000	560.00000	560.00000	1440.0000	1440.0000	MMT
CSIS		•	•	54.0.00000	5.0.0000		•	•	CSIS
SIS			•	560.00000	500.00000	500.00000	1440.0000	1440.0000	SIS
LNGW	1.00000	50000.000-	1.00000	•	•	•	•	•	LNGW

	NGVCC75'b	NGFCC104	NGVCC104	RHSCSIA	RHSCSIB	RHSCSIC	RHSCS2A	RHSCS2B	122
LSI	•	•	•	1.00000	1.00000	1.00000	1.00000	1.00000	LSI
LCSI	•	1.00000	•	• • •	•	•	• • • • • •		LCSI
LLJ		•	•	84.00000	84.00000	84.00000	168.00000	168.00000	LLJ
LLO .	•	•	•	84.00000	84.00000	84.00000	168.00000	168.00000	LLO
LLS	•	•	•	84.00000	84.00000	84.00000	168.00000	168.00000	LLS
FVS42	•	•	•	10000.000		•	•	•	FVS42
FVS752	•	•	•	•	20000.000	•	•	•	FVS752
FVS101	•	•	•	• '		12000.000	•	•	FVS101
FVS43	•		•	•		•*	15000.000	• • •	FVS43
FVS753	•		•	•	•	•		30000.000	FVS753
FVS102	• •	•	• `		•	• '	•	•	FVS102
FV546	•	•	•	•	•	•	•	•	FVS46
FV575ö	•	•	•	•	•	•	•	•	FVS756
FVS104	•		•	. •	•	•	• •	•	FVS104
FVC42	• *	•	•	•	•	•	•	•	FVC42
FVC752	•	•	•	•	•	•	•	•	FVC752
FVC101	•	•	•	•	•	•	•	•	FVC101
FVC43	•	•	•	•	•	•	•	•	FVC43
FVC753	•	•	•	•	. •:	•	•	. •	FVC753
FYC102	•	•	•	•	•	•	•	•	FVC102
FVC46		•	•	•	•	•	•	•	FVC46
FVC756	1.00000	•	•	•	•		•	•	FVC756
FVC104	•	•	1.00000	•	•	•	•	•	FVC104
NRC1	•	•	•	1.00000	•	•	•	•	NRC1
NRC4		•	•	•	1.00000		•	•	NRC4
NRC7	•		•	•	•	1.00000	•		NRC7
NRC 2	•	•	•	•	•	•	1.00000	•	NRC2
NRC5	•		•		•	• •	. •	1.00000	NRC5
NRC8	•		•	•	•	•	•	•	NRCB
NRC3	•	•	•	•			•	•	NRC3
NRC6	•		•		•	. •	• •	•	NRC6
NRC9	•		•	•	•		•	•	NRC9
NRS1				•		•			NRS1
NRS4	-		•						NRS4
NRS7	•	•	•	•	•		•		NRS7
NR52	•	•	•	•	•	•	•	•	NRS2
NRS5		•	•		•	•	•	•	NRS5
NRS8	•	•	•	•		-	-	•	NRSB
NRS3	-	-	•	-	•	-		•	NR53
NRS6	•		-			•	-	-	NR S6
NRS9	•	1.00000	-	-	-	-	-	-	NRS9
41423	•	1.00000	•	•	•	•	•	•	

	RHSCSZC	RHSCS3A	RHSCS38	RHSCS3C	RHSSCIA	RHSSCIB	RHSSCIC	RHSSC2A	131
08J1	•	· •	•			•	•	.•	08.11
08J2	•	•	•	•	•	•	•		0BJ2
0833	•	•	•		•	•	•	•	OBJ3
08J4	•	•		•	•	•			OBJ4
CCL	1440.0000	2580.0000	2580.0000	2680.0000	• *	•			CCL
CSL	•	•			500.00000	560.00000	560.00000	1440.0000	CSL
JAL	143.00000	121.00000	121.00000	121.00000	165.00000	165.00000	165.00000	143.00000	JAL
FBL	130.00000	112.00000	110.00000	110.00000	150.00000	150.00000	150.00000	130.00000	FBL
MRL	143.00000	121.00000	121-00000	121.00000	165.00000	165.00000	165.00000	143.00000	MRL
APL	165.00000	143.00000	143.00000	143.00000	187.00000	187.00000	187.00000	165.00000	APL
MYL	165.00000	143.00000	143.00000	143.00000	187.00000	187.00000	187.00000	165.00000	MYL
JNL	187.00000	155.00000	165.00000	165.00000	209.00000	209.00000	209.00000	187.00000	JNL
JYL	187.00000	165.00000	165.00000	165.00000	209.00000	209.00000	209.00000	187.00000	JYL
AGL	187.00000	165.00000	165.03000	165.00000	209.00000	209.00000	209.00000	187.00000	AGL
STL	187.00000	165.00000	165.00000	165.00000	209.00000	209.00000	209.00000	187.00000	STL
OCL	187.00000	165.00000	165.00000	165.00000	209.00000	209.00000	209.00000	187.00000	OCL
NVL	165.00000	143.00000	143.00000	143.00000	187.00000	187.00000	187.00000	165.00000	NVL
OCL	143.00000	121.00000	121.00000	121.00000	165.00000	165.00000	165.00000	143400000	OCL
OC	143.0000	121100000	121.03000	121.00000	103.0000	10310000	103.0000	143200000	OC
10	•	•	•	•		•	•	•	ıc
MRI	2567.0000	3200.0000	5000.0000	5333.0000	1066.0000	2000.0000	1333.0000	1600 0000	
AP:I	2667.0000	3200.0000	6000.0000	5333.0000	1066.0000	2000.0000		1600.0000	MRI
							1333.0000	1600.0000	AP I
MYI	2667.0000	3200.0000	6000.0000	5333.0000	1066.0000	2000.0000	1333.0000	1600.0000	MA I
JNI	2667.0000	3200.0000	6000.0000	5333.0000	1066.0000	2000.0000	1333.0000	1600.0000	JNI
JYI	2667.0000	3200.0000	6000.0000	5333.0000	1066.0000	2000.0000	1333.0000	1600.0000	JYI
AGI	2667.0000	3200.0000	5000.0000	5333.0000	1066-0000	2000.0000	1333.0000	1600.0000	AGI
STI	2667.0000	3200.0000	6000.0000	5333.0000	1066.0000	2000.0000	1333.0000	1600.0000	STI
001	2667.0000	3200.0000	6000.0000	5333.0000	1066.0000	2000.0000	1333.0000	1600.0000	001
NVI	2667.0000	3200.0000	6000.0000	5333.0000	1066.0000	2000.0000	1333.0000	1600.0000	NVI
TIW	•	•	•	•	•	•	•		TIW
NI	•	•	•	• ,	. •	•	•	•	IN
19	•	•	. •	•		•	•	•	PI
11	•	•	•	•	•	• .	•	•	HI
11	•	•	•	•	•	•	• '	•	II
DI	•	•	•	•	•	•	•	•	DI
91	•	•	•	•	•	•	• * * * * * * * * * * * * * * * * * * *	•	10
NGI	•	•	•	•	•	•	•	•	NGI
MI	•	•	•	•	•	•	•	•	IM
WG .	•	•	•	•	•	•	•	•	WG
SGGUNM	•	•	•	•	•	• .	•	. •	SGGONM
SGGOOM	•	•	• ,	• •	•	•	•	•	SGGOOM
CG	•	•	•	•	•	• '	•	•	CG
CS	•	•	•	. •	•	•	•	•	CS .
GS	•	• ".	•	•	•	•	•	•	G\$
GSS	•	•	•	•	•	•	•	•	GSS
SH	•	•	. •	•	•	•	•	• .	SH
SB	•	* * * • * * · · · · · · · · · · · · · ·		•	•	•	•	•	SB
MCT	1440.0000	2630.0000	2680.0000	2680.0000	560.00000	560.00000	560.00000	1440.0000	MCT
MMT	1440.0000	2680.0000	2680.0000	2680.0000	560.00000	560.00000	560.00000	1440.0000	MMT
CSIS	• •	•	•	•	560.00000	560.00000	560.00000	1440.0000	CSIS
212	1440.0000	2080.0000	2680.0000	2680.0000	•		•	•	SIS
LNGW		•	•	• 2	•	•	•	•	LNGW
						·		-	

	RHSCS2C	RHSCS3A	RHSC539	RHSCS3C	RHSSCIA	RHSSCIB	RHSSCIC	RHSSC2A	132
LSI	1.00000	1.00000	1.00000	1.00000			•		LSI
LCSI	•	•	•	•	1.00000	1.00000	1.00000	1.00000	LCSI
LLJ	158.00000	330.00000	336.00000	336.00000	84.00000	84.00000	84.00000	168.00000	LLJ
LLO	168.00000	335.00000	336.00000	336.00000	84.00000	84.00000	84.00000	168.00000	LLO
LLS	158.00000	330.00000	336.00000	336.00000	84.00000	84.00000	84.00000	168.00000	LLS
FVS42		•	•	•	•		• 1		FVS42
FVS752	•	•		•	•	•	•		FVS752
FV5101	•	•	•	•	•	•	•	•	FVS101
FVS43 .	•	• '	•	•	•	•	•	•	FVS43
FVS753		•	•	•	•	• "	•	•	FVS753
FV5102	25000.000	•	•	•	•	•	•	•	FV5102
FVS46	•	30000.000		•	•	•	•	•	FVS46
FVS 756		•	56000.000	•	•	•	•	•	FVS756
FVS104	•	•	•	50000.000	•	•	• .	•	FVS104
FVC42	• ,	•	• •	•	10000.000	• .	•	•	FVC42
FVC752		•	•	•	•	20000.000	•	•	FVC752
FVC101	•	•	•	•		•	12000.000		FVC101
FVC43	•	•	•	•	•	•	•	15000.000	FVC43
FVC753	•	•	. •	•	. •	•	• 1	•	FVC753
FVC102	•	•	•	• ,	•	•	•	•	FVC102
FVC46	•	•	• 1	•	•	•	•	•	FVC46
FVC756	•	•	•	•	•	•	•	• • •	FVC756
FVC104	•	•	•	•	. □	• ,	•.		FVC104
NRC1	. •	•	•	•	•	e e visit 😽 📑	•	•	NRC1
NRC4	•		•	•	•	•	•	•	NRC4
NRC7	. •	•	•	•	•	•	• .	•	NRC7
NRC2		•	•	The second second	•	•	•	•	NRC2
NRC5		•	•	•	•		•	•	NRC5
NRCB	1.00000	•		• • •	•	•	•	•	NRC8
NRC3		1.00000	•	. •	•	•	•	•	NRC3
NRC6	•	•	1.00000	•	•	•	•	•	NRC6
NRC9		•	•	1.00000	•	•	•	•	NRC9
NRSI	•	•	• ' '	• 1	1.00000	•		•	NRS1
NRS4		•	•	•	•	1.00000	•		NRS4
NRS7		•		•	• '	•	1.00000		NRS7
NRS2	•	•	•	•	• 4 4	•	• .	1.00000	NRS2
NRS5	•	•	•	•		•	•	.	NRS5
NRSB	•	•	•	•	•	•	•	•	NRS8
NRS3	•	•	• '		• .	•	•	•	NRS3
NRS6		•	•	•	•		•	•	NRS6
NR59	•	•	. •	•	•	•	•	•	NRS9

	RHSSC28	RHSSC2C	RESCHA	RHSSCJB	RHSSC3C	
	. •					
0811	•	•	•	•	•	0BJ1
08J2	•		•	•	•	08J2
0833	• •	•	•	•	• • •	0813
OBJ4 CCL	•	•	•	•	•	OBJ4 CCL
CSL	1440.0000	1440.0000	2680.0000	2680.0000	2680.0000	CSL
JAL	143.00000	143.0000	121.00000	121.00000	121.00000	JAL
FBL	130.00000	130.00000	110.00000	110.00000	110.00000	FBL
_		143.00000	121.03000	121.00000		MRL
MRL APL	143.00000 165.00000	165.00000	142.00000	143.00000	121.00000	APL
		165.00000	143.00000	143.00000	143.00000	HYL
MYL.	165.00000 187.00000	187.00000	165.00000	165.00000		
JNL					165.00000	JNL
JYL	187.00003	187.00000 187.00000	165.00000 165.00000	165.00000	165.00000	JAF
AGL	187.00000	187.00000	165.00C00	165.00000 165.00000	165.00000	AGL STL
STL	137.00000	187.00000	165.00000	165.00000	165.00000	
OCL .						OCL
NVL	165.00000	165.00000	143.00000	143.00000	143.00000	NVL
DCL	143.00000	143.00900	121.00000	121.00000	121.00000	DCL
oc	·.•	•	. •	•	•	uc
IC.						IC
MRI	3000.0000	2667.0000	3200.0000	6000.0000	5333.0000	MRI
API	3000.0000	2667.0000	3200.0000	6000.0000	5333.0000	API
MYI	3000.0000	2667.0000	3200.0000	6000.0000	5333.0000	MYI
INL	3000.0000	2667.0000	3200.0000	6000.0000	5333.0000	JNI
JAI	3000.0000	2607.0000	2200.0000	6000.0000	5333.0000	J Y I
AGI	3000.0000	2667.0000	3200.0000	6000.0000	5333.0000	AGI
STI	3000.0000	2667.0000	3200.0000	6000.0000	5333.0000	STI
OCI	3000.0000	2667.0000	3200.0000	6000.0000	5333.0000	oc i
NVI	3000.0000	2667.0000	3200.0000	6000.0000	5333.0000	IVA
TIW	•	•	•	•	•	TIW
NI	.•.	•	•	•	•	NI
PI	• • •	•	•	•	•	PI
HI	•	•	•	•	•	HI
11	•	•	•	•	•	11
DI	•	•	•	•	•	10
10	•	•	•	•	•	01
NGI	•	•	•	•	•	NGI
MI	•	•	•	•	•	MI
wG	•	•	•	•	•	WG
SGGONM	•	• .	•	•	•	SGGONM
SGGUOM	•	•	. •	•	. •	SGGUUM
CG	•	•	•	•	•	CG
cs	•	•	•	•	• '	cs
GS ·	. •	•	• ,	•	•	GS
GSS	•	•		• •	•	GSS
SH	•	•	•	•	•	SH
\$B	•		•	•	•	SB
MCT	1440.0000	1440.0000	2680.0000	2680.0000	2680.0000	MCT
MMT	1440.0000	1440.0000	2680.3000	2580.0000	2640.0000	MMT
CSIS	1440.0000	1440.0000	2680.0000	2680.0000	2680.0000	CSIS
SIS	•	•	•	•	•	SIS
LNG#				•		INGW

	RHSSC23	RHSSC2C	RHSSC3A	RHSSC3B	RHSSCJC	
LSI			_			LSI
LCSI	1.00000	1.00000	1.00000	1.00000	1.00000	FC21
LLJ	158.30000	158.00000	236.00000	336.00000	330.00000	LLJ
LLO	158.00000	169.00000	236.00000	336.00000	336.00000	LLO
LLS	168.00000	158.00000	336.00000	336.00000	336.00000	LLS
FVS42	100.0000	130.0000	230.0000	330, 30000	333.0000	FVS42
FVS752		<u>.</u>			•	FV5752
FVS101	<u>.</u>	<u>.</u>	· ·	•	•	FVSIOI
FVS43	•	•		· ·		FV\$43
FVS753	•	•	•	•	•	FVS753
FVS102	•	•	•	•	•	FVS102
FV5102	•	. •	•	•	•	FV546
FVS756	•	•	•	•	· •	FVS756
FVS104	•	•	•	•	•	FVS104
FVC42	•		•	•	•	FVC42
FVC752	•		• .	•	•	FVC752
FVC101	•	•	•	•	•	FVC101
FVC101	•	•	•	•	•	FVC43
	30000.000	•	•	•	•	FVC753
FVC753	30000.000	25000.000	•	•	•	FVC102
FVC102	•	25000.000	30000.000	•	*** * * * * * * * * * * * * * * * * *	FVC102
FVC46	•	• •	30000.000	56000.000	•	FVC756
FVC 756	•	•	•	20000.000	50000.000	_
FVC104	•	• •	•	•	50000.000	FVC104
NRC 1	•	•	•	•	• ,	NRC1
NRC4		•	•	•	•	NRC4
NRC7	· . · . •	•	•	•	•	NRC7
NRC2	5. P. 1	•	•	•	• '	NRC2
NRC5	• **	. •	•	•	• ,	NRC5
NRC8	•	•	•	•	•	NRCB
NRC3	•	. •	•	•	•	NRC3
NRC6	•	• • •	•	•	•	NRC6
NRC9	•	, •	•	• .	•	NRC9
NRS1	•	• •	•	,•	•	NRS1
NRS4	•	•	•	•	•	NRS4
NRS7	•	•	•	•	•	NRS7
NRS2	•	•	•	•	•	NRS2
NRS5	1.00000	•	•	•	•	NRS5
NRS8	•	1.00000	•	•	• ,	NRS8
NRS3	•	•	1.00000	•	•	NRS3
NRS6	. •	•	•	1.00000	•	NRS6
NRS9	•	•	•	•	1.00000	NRS9

Row and Column Identification

Row Name	Explanation
OBJL	Net returns to land, labor, risk and management
OBJ2	Fossil fuel energy inputs
0BJ3	Energy (calorie) output
0BJ4	Net kilocalories of energy
CCL	Cropland Clay loam
CSL	Cropland sandy loam
JAL	January labor
FBL	February labor
MRL	March labor
APL	April labor
MYL	May labor
JNL	June labor
JYL	July labor
AGL	August labor
STL	September labor
0CL	October labor
NVL	November labor
DCL	December labor
. OC	Operating capital
IC	Investment capital
MRI	March irrigation
API	April irrigation
MYI	May irrigation
JNI	June irrigation
JYI	July irrigation
AGI	August irrigation
STI	September irrigation
OCI	October irrigation
NVI	November irrigation
TIW	Total irrigation water used
NI	Nitrogen input
PI	Phosphate input

Row Name	Explanation
HI	Herbicide input
II	Insecticide input
DI	Diesel input
01	Oil input
NGI	Natural gas input
MI	Machinery input
WG ·	Wheat grain
SGGONM	Small grain graze-out November through March
SGGOOM	Small grain graze-out October through May
CG	Corn grain
CS	Corn silage
GS	Grain sorghum
GSS	Grain sorghum stubble
SH	Sudan hay
SB	Soybeans
MCT	Maximimum conventional tillage
MMT	Maximum minimum (reduced) tillage
CSIS	Circular sprinkler irrigation system
SIS	Surface irrigation system
LNGW	Limit natural gas water
LSI	Limit surface irrigation
LCSI	Limit circular sprinkler irrigation
LLJ	Limit labor June
LL0	Limit labor October
LLS	Limit labor September
FVS42	Variable cost for surface irrigation 400 GPM and two wells.
FVS43	Variable cost for surface irrigation 400 GPM and three wells
FVS46	Variable cost for surface irrigation 400 GPM and six wells
FVS752	Variable cost for surface irrigation 750 GPM and two wells
FVS753	Variable cost for surface irrigation 750 GPM and three wells
FVS756	Variable cost for surface irrigation 750 GPM and six wells

Row Name	e de la companya de l	Explanation			
FVS101	19 (19 m)	Variable cost for surface irrigation 1000 GPM and one well			
FVS102		Variable cost for surface irrigation 1000 GPM and two wells			
FVS104		Variable cost for surface irrigation 1000 GPM and four wells			
FVC42		Variable cost for circular sprinkler 400 GPM and two wells			
FVC43		Variable cost for circular sprinkler 400 GPM and three wells			
FVC46		Variable cost for circular sprinkler 400 GPM and three wells			
FVC752		Variable cost for circular sprinkler 750 GPM and two wells			
FVC753		Variable cost for circular sprinkler 750 GPM and three wells			
FVC756		Variable cost for circular sprinkler 750 GPM and six wells			
FVC101	, *,	Variable cost for circular sprinkler 1000 GPM and one well			
FVC102		Variable cost for circular sprinkler 1000 GPM and two wells			
FVC104		Variable cost for circular sprinkler 1000 GPM and four wells			
NRC1		Fixed irrigation cost for farm IA clay			
NRC2		Fixed irrigation cost for farm IIA clay			
NRC3		Fixed irrigation cost for farm IIIA clay			
NRC4		Fixed irrigation cost for farm IB clay			
NRC5		Fixed irrigation cost for farm IIB clay			
NRC6		Fixed irrigation cost for farm IIIB clay			
NRC7		Fixed irrigation cost for farm IC clay			
NRC8		Fixed irrigation cost for farm IIC clay			
NRC9	*	Fixed irrigation cost for farm IIIC clay			
NRS1		Fixed irrigation cost for farm IA sandy			
NRS2		Fixed irrigation cost for farm IIA sandy			
NRS3		Fixed irrigation cost for farm IIIA sandy			
NRS4		Fixed irrigation cost for farm IB sandy			
NRS5		Fixed irrigation cost for farm IIB sandy			

Row Name	<u>Explanation</u>			
NRS6	Fixed irrigation cost for farm IIIB sandy			
NRS7	Fixed irrigation cost for farm IC sandy			
NRS8	Fixed irrigation cost for farm IIC sandy			
NRS9	Fixed irrigation cost for farm IIIC sandy			
Column Name				
CCG	Conventional tillage irrigated corn grain			
CCS	Conventional tillage irrigated corn silage			
CWG	Conventional tillage irrigated wheat grain			
CWGO	Conventional tillage irrigated wheat graze-out			
CSMI	Conventional tillage moderate irrigated grain sorghum			
CSHI	Conventional tillage heavy irrigated grain sorghum			
CRG0	Conventional tillage irrigated rye graze-out			
CSH	Conventional tillage irrigated sudan hay			
CSB	Conventional tillage irrigated soybeans			
MCG	Reduced tillage irrigated corn grain			
MSRCSL	Reduced tillage silage and rye double crop, circular sprinkler on sandy loam soil			
MSRSCL	Reduced tillage silage and rye double crop, surface irrigation on clay loam soil			
MWG2RCMC	Reduced tillage irrigated two year rotation of conventional year one and reduced tillage year two			
MWGSDC	Reduced tillage irrigated wheat and grain sorghum double crop			
MWGSBDC	Reduced tillage irrigated wheat and soybean double crop			
MWGOSHDC	Reduced tillage irrigated wheat graze-out and sudan hay double crop			
MWFS3HI	Reduced tillage wheat-fallow-sorghum three year rotation under heavy irrigation			
MWFS3MI	Reduced tillage wheat-fallow-sorghum three year rotation under moderate irrigation			
DLW	Dryland wheat clay loam soil			
DLWS	Dryland wheat sandy loam soil			

Column Name

Explanation

DLGSS Dryland sorghum sandy loam soil
DLGSC Dryland sorghum clay loam soil

DLSGGO Dryland small grain graze-out clay loam soil
DLSGGOS Dryland small grain graze-out sandy loam soil

CGSL Corn grain sell
CSSL Corn silage sell
WGSL Wheat grain sell
GSSL Grain sorghum sell
SHSL Sudan hay sell
SBSL Soybean sell

SGGONMSL Small grain graze-out November through March

sell

SGG00MSL Small grain graze-out October through May sell GSNJSL Sorghum stubble November through January sell

Buy December labor

BOG Borrow operating capital
BIC Borrow investment capital

BJAL Buy January labor **BFBL** Buy February labor **BMRL** Buy March labor BAPL Buy April labor BMYL Buy May labor BJNL Buy June labor BJYL Buy July labor BAGL Buy August labor **BSTL** Buy September labor **BOCL** Buy October labor BNVL Buy November labor

BN Buy nitrogen
BP Buy phosphate
BH Buy herbicide
BI Buy insecticide

BD Buy diesel

BDCL

BNG Buy oil and lubes BNG Buy natural gas

<u>Column Name</u>	<u>Explanation</u>
BM	Buy machinery
NGFCS42	Natural gas fixed cost surface irrigation 400 GPM and two wells, farm IA
NGVCS42	Natural gas variable cost for surface irriga- tion 400 GPM and two wells, farm IA
NGFCS752	Natural gas fixed cost for surface irrigation 750 GPM and two wells, farm IB
NGVCS752	Natural gas variable cost for surface irrigation 750 GPM and two wells, farm IB
NGFCS101	Natural gas fixed cost for surface irrigation 1000 GPM and one well for farm IC
NGVCS101	Natural gas variable cost for surface irrigation 1000 GPM and one well for farm IC
NGFCS43	Natural gas fixed cost surface irrigation 400 GPM and three wells for farm IIA
NGVCS43	Natural gas variable cost surface irrigation 400 GPM and three wells for farm IIA.
NGFCS753	Natural gas fixed cost surface irrigation 750 GPM and three wells for farm IIB
NGVCS753	Natural gas variable cost for surface irrigation 750 GPM and three wells for farm IIB
NGFCS102	Natural gas fixed cost for surface irrigation 1000 GPM and two wells for farm IIC
NGVCS102	Natural gas variable cost for surface irrigation 1000 GPM and two wells for farm IIC.
NGFCS46	Natural gas fixed cost for surface irrigation 400 GPM and six wells for farm IIIA
NGVCS46	Natural gas variable cost for surface irrigation 400 GPM and six wells for farm IIIA
NGFCS756	Natural gas fixed cost for surface irrigation 750 GPM and six wells for farm IIIB
NGVCS756	Natural gas variable cost for surface irrigation 750 GPM and six wells for farm IIIB
NGFCS104	Natural gas fixed cost for surface irrigation 1000 GPM and four wells for farm IIIC
NGVCS104	Natural gas variable cost for surface irrigation 1000 GPM and six wells for farm IIIC
NGFCC42	Natural gas fixed cost for sprinkler irrigation 400 GPM two wells for farm IA
NGVCC42	Natural gas variable cost for sprinkler irriga- tion 400 GPM two wells for farm IA.

NGFCC752	Natural gas fixed cost for sprinkler irrigation 750 GPM two wells for farm IE
NGVCC752	Natural gas variable cost for sprinkler irriga- tion 750 GPM two wells for farm IB
NGFCC101	Natural gas fixed cost for sprinkler irrigation 1000 GPM one well for farm IC
NGVCC101	Natural gas variable cost for sprinkler irriga- tion 1000 GPM one well for farm IC
NGFCC43	Natural gas fixed cost for sprinkler irrigation 400 GPM three wells for farm IIA
NGVCC43	Natural gas variable cost for sprinkler irriga- tion 400 GPM three wells for farm IIA
NGFCC753	Natural gas fixed cost for sprinkler irrigation 750 GPM three wells for farm IIB
NGVCC753	Natural gas variable cost for sprinkler irriga- tion 750 GPM three wells for farm IIB
NGFCC102	Natural gas fixed cost for sprinkler irrigation 1000 GPM two wells for farm IIC
NGVCC102	Natural gas variable cost for sprinkler irriga- tion 1000 GPM two wells for farm IIC
NGFCC46	Natural gas fixed cost for sprinkler irrigation 400 GPM six wells for farm IIIA
NGVCC46	Natural gas variable cost for sprinkler irriga- tion 400 GPM six wells for farm IIIA
NGFCC756	Natural gas fixed cost for sprinkler irrigation 750 GPM six wells for farm IIIB
NGVCC756	Natural gas variable cost for sprinkler irriga- tion 750 GPM six wells for farm IIIB
NGFCC104	Natural gas fixed cost for sprinkler irrigation 1000 GPM four wells for farm IIIC
NGVCC104	Natural gas variable cost for sprinkler irriga- tion 1000 GPM four wells for farm IIIC
RHSCSIA	Right hand side for farm IA clay loam
RHSCSIB	Right hand side for farm IB clay loam
RHSCSIC	Right hand side for farm IC clay loam
RHSCS2A	Right hand side for farm IIA clay loam
RHSCS2B	Right hand side for farm IIB clay loam
RHSCS2C	Right hand side for farm IIC clay loam
RHSCS3A	Right hand side for farm IIIA clay loam
RHSCS3B	Right hand side for farm IIIB clay loam
RHSCS3C	Right hand side for farm IIIC clay loam

RHSSCIA	Right ha	nd side	for farm	IA sandy loam
RHSSCIB	Right ha	nd side	for farm	IB sandy loam
RHSSCIC	Right ha	nd side	for farm	IC sandy loam
RHSSC2A	Right ha	nd side	for farm	IIA sandy loam
RHSSC2B	Right ha	nd side	for farm	IIB sandy loam
RHSSC2C	Right ha	nd side	for farm	IIC sandy loam
RHSSC3A	Right ha	nd side	for farm	IIIA sandy loam
RHSSC3B	Right ha	nd side	for farm	IIIB sandy loam
RHSSC3C	Right ha	nd side	for farm	IIIC sandy loam

APPENDIX C

COMPLETE SOLUTION RESULTS FOR THE TWELVE SPECIFIED SITUATIONS

TABLE LXII

OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTION ONE FOR THE 560 ACRE CLAY LOAM FARMS

Farm Size		•	560 Acres	
Number of Wells		Two	Two	0ne
Total GPM		800	1500	1000
Solution Number		IA	IB	IC
Identification	Units			
Net Returns	DOL.	23,784.69	30,668.44	26,689.05
Net Kilocalories	MILLION	1,220.4559	925.59538	1,353.33517
Irrigated Crops ^{A/}				
CSB	AC AC		112.3	3.6
RWG2RCRC RWGSDC	AC AC	9.2 71.8	29.0 71.7	3.6 71.7
RWFS3HI	AC	294.6	346.8	405.8
Dryland Crops <mark>A</mark> /				
DLW	AC	184.4		78.7
Crop Products <u>B</u> /		1		
SGGONM	AUM	170	143	165
GSNJ Wheat	AUM Bu	135 12,543	159 11,578	186 12,521
Grain Sorghum	CWT	9,535	10,616	11,835
Soybeans	BU		5,056	
Cropping System <u>C</u> /				
Con Tillage	AC		112.3	
Red Tillage	AC	375.6	447.7	481.2
Monthly Labor Requirements				
March	HR.	26	77	31
April	HR. HR.	28 55	98 116	32 69
May June	HR.	188	209	204
July	HR.	67	153	84
August	HR.	100	143	112
September October	HR. HR.	57 56	51 56	50 56
November	HR.	34	41	40
Monthly Hired Labor	•			
March	HR.	34	41	40
April	HR.	,		
May June	HR. HR.		50 ;	 ' '
July	HR.		50	
August	HR.			· · ·
September	HR. HR.	'.		
October November	HR.			

TABLE LXII (Continued)

Solution_Number:		IA ,	IB	IC
Identification	Units			
Limited Labor Months				
June 8-22	HR.	84	84	84
September 15-29	HR.			
October 1-15	HR.	56	56	56
Monthly Irrigation Requirements				•
March	ACIN	510	562	621
April	ACIN	547	678	635
May	ACIN	1,066	2,000	1,333
June	ACIN	784	1,251	917
July	ACIN	1,066	2,000	1,333
August	ACIN	707	1,641	974
September	ACIN	243	302	226
October .	ACIN	215	215	215
November	ACIN	635	782	757
Total Water Used	ACIN	5,773	9,433	7,014
SISD/	AC	375.6	560.0	481.2
Capital				
Operating	DOL.	9,405.10	10,801.60	10,006.40
Investment	DOL.	19,325.53	37,780.76	21,820.60
Energy Inputs				
Nitrogen	CWT	530.8	538.5	551.9
Phosphate	CWT			
Herbicide	LB.	411.5	595.9	517.2
Insecticide	LB.	336.4	418.6	477.6
Diesel	GALS.	1,397.8	2,306.3	1,486.2
0i1	QTS.	645.3	1,072.3	760.7
Natural Gas	1000	3,421.632	6,276.205	4,163.614
	CUFT.			
Machinery	DOL.	2,882.55	5,702.78	3,311.14

CSB, Conventional tillage soybeans; RWG2RCRC, Reduced tillage wheat grain two year rotation of conventional tillage year one and reduced tillage year two; RWGSDC, Reduced tillage wheat grain sorghum double crop; RWFS3HI, Reduced tillage wheat-fallow-sorghum three year rotation heavy irrigation; DLW, Dryland tillage wheat.

 $[\]underline{B\!/}_{\rm SGGONM},$ Small grain graze out November-March; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{^{\rm C}\!/}_{\rm For}$ irrigated acreage only, Con refers to conventional and Red means reduced tillage.

 $[\]underline{D}/\mathrm{SIS}$, Surface irrigation system used.

TABLE LXIII

OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTION ONE FOR THE 1440 ACRE CLAY LOAM FARMS

Farm Size		•	1440 Acres	
Number of Wells		Three	Three	Two
Total GPM		1200	2250	2000
Solution Number:		IIA	IIB	IIC
Identification	Units			,
Net Returns	DOL.	42,604.86	59,018.70	55,629.66
Net Kilocalories	MILLION	2,538.17725	3,234.9227	3,069.19649
Irrigated CropsA/				
RWG2RCMC RWGSDC	AC AC	29.5 143.6	.3 143.6	7.1 143.6
RWFS3HI	AC	367.5	950.9	812.1
Dryland Crops ^{A/}				
DLW	AC	899.4	345.2	477.0
Crop Products <u>B</u> /			*	
SGGONM GSNJ	AUM AUM	465 169	434 437	442 373
Wheat	BU	30,411	30,295	30,322
Grain Sorghum	CWT	14,489	26,546	23,679
Cropping System ^{C/}				
Con Tillage Red Tillage	AC AC	540.6	1,094.8	962.9
Monthly Labor Requirements	9			
March	HR.	41	70	63
April May	HR. HR.	47 83	70 156	65 138
June	HR.	187	187	187
July August	HR. HR.	101 187	187 187	168 187
September	HR.	163	127	136
October November	HR. HR.	113 54	1.13 89	113 81
Monthly Hired Labor				
March	HR.		** ** • • • • •	
April May	HR. HR.			
June	HR.	196	279	259
July	HR. →	 97	2 .92	 76
August September	HR. HR.	27 	.JC	/b
October .	HR.		·	
November	HR.	 , '		

TABLE LXIII (Continued)

Solution Number:		IIA	IIB	IIC
Identification	Units			
Limited Labor				
Months				
June 8-22	HR.	168	168	168
September 15-29	HR.			
October 1-15	HR.	113	113	113
Monthly Irrigation				
Requirements				
March	ACIN	798	1,381	1,242
April	ACIN	916	1,382	1,271
May	ACIN	1,600	3,000	2,667
June	ACIN	1,302	2,002	1,836
July	ACIN	1,600	3,000	2,667
August	ACIN	882	2,282	1,949
September	ACIN	519	431	452
October	ACIN	430	430	430
	ACIN	1,026		
November	ACIN	1,020	1,668	1,515
Total Water Used	ACIN	9,075	15,579	14,032
SISD/	AC .	540.6	1,094.8	962.9
0				
Capital				
Operating	DOL.	20,911.28	24,064.20	23,314.25
Investment	DOL.	33,912.57	57,869.77	45,942.10
Energy Inputs				
Nitrogen	CWT	1,211.4	1,322.3	1,295.9
Phosphate	CWT			
Herbicide	LB.	612.4	1,166.6	1,034.7
Insecticide	LB.	511.1	1,094.4	955.7
Diesel	GALS	3,035.3	3,499.0	3,388.7
0i1	QTS.	1,102.2	1,707.4	1,563.4
Natural Gas	1000	5,364.859	9,255.400	8,330.007
	CUFT.			
Machinery	DOL.	5,243.94	7,491.23	6,956.69

 $[\]frac{A}{R}$ RWG2RCRC, Reduced tillage wheat grain two year rotation of conventional tillage year one and reduced tillage year two; RWGSDC, Reduced tillage wheat grain sorghum double crop; RWFS3HI, Reduced tillage wheat-fallow-sorghum three year rotation heavy irrigation; DLW, Dryland tillage wheat.

 $[\]underline{B}/\operatorname{SGGONM}$, Small grain graze out November-March; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{^{\text{C}}\!/}_{\text{For irrigated acreage only, Con refers to conventional and Red means reduced tillage.}$

 $[\]underline{D}/\mathrm{SIS}$, Surface irrigation system used.

TABLE LXIV

OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTION ONE FOR THE 2680 ACRE CLAY LOAM FARMS

Farm Size		2680 Acres			
Number of Wells		Six	Six	Four	
Total GPM		2400	4500	4000	
Solution Number		IIIA	IIIB	IIIC	
Identification	Units				
Net Returns	DOL.	81,279.91	133,204.26	106,665.36	
Net Kilocalories	MILLION	4,850.08669	6,243,57675	5,911.62751	
Irrigated Crops ^A / RWG2RCMC RWGSDC RWFS3HI	AC AC AC	58.9 287.2 735.0	.6 287.2 1,901.7	14.5 287.2 1,623.8	
Dryland CropsA/					
DLW	AC	1,598.8	490.5	754.5	
Crop Products ^B / SGGONM GSNJ Wheat Grain Sorghum	AUM AUM BU CWT	861 338 57,523 28,978	799 874 57,289 53,093	814 746 57,344 47,348	
Cropping System ^C /					
Con Tillage Red Tillage	AC AC	1,081.2	2,189.5	2,471.7	
Monthly Labor Requirements					
March April May June July August September October November	HR. HR. HR. HR. HR. HR. HR.	82 95 143 165 165 165 165 165	121 141 143 165 165 165 165 165 165	121 130 143 165 165 165 165 165	
Monthly Hired Labor					
March April May June July August September October November	HR. HR. HR. HR. HR. HR. HR.	 24 577 37 240 140	20 169 743 214 369 68 61 36	6 134 703 172 338 85 61	

TABLE LXIV (Continued)

Solution Number:		IIIA	IIIB	IIIC
Identification	Units			
limited Labor Months				
June 8-22 September 15-29 October 1-15	HR. HR. HR.	336 226	336 226	336 226
onthly Irrigation lequirements				
March April May June July August September October November	ACIN ACIN ACIN ACIN ACIN ACIN ACIN ACIN	1,596 1,832 3,200 2,605 3,200 1,764 1,038 861 2,052	2,763 2,765 6,000 4,005 6,000 4,564 863 861 3,336	2,485 2,543 5,333 3,671 5,333 3,897 905 861 3,030
otal Water Used	ACIN	18,151	31,159	28,060
sis <u>D</u> /	AC	1,081.2	2,189.5	2,471.7
Capital				
Operating Investment	DOL.	39,760.12 66,387.14	46,066.39 114,301.54	44,564.25 90,446.10
Energy Inputs				
Nitrogen Phosphate Herbicide Insecticide Diesel Oil Natural Gas	CMT CWT LB. LB. GALS. QTS. 1000 CUFT.	2,302.9 1,224.3 1,022.2 5,810.3 2,178.4 10,729.717	2,524.5 2,333.1 2,188.9 6,788.1 3,388.8 18,510.801	2,471.7 2,069.1 1,910.9 6,517.1 3,100.4 16,657.236
Machinery	DOL.	10,279.88	14,774.46	13,703.78

A/RWG2RCRC, Reduced tillage wheat grain two year rotation of conventional tillage year one and reduced tillage year two; RWGSDC, Reduced tillage wheat grain sorghum double crop; RWFS3HI, Reduced tillage wheat-fallow-sorghum three year rotation heavy irrigation; DLW, Dryland tillage wheat.

 $[\]underline{B}/\mathrm{SGGONM}$, Small grain graze out November-March; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{^{\rm C}\!/_{\rm For}}$ irrigated acreage only, Con refers to conventional and Red means reduced tillage.

 $[\]underline{D}/\mathrm{SIS}$, Surface irrigation system used.

TABLE LXV

OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTION ONE FOR THE 560 ACRE SANDY LOAM FARMS

Farm Size			560 Acres	
Number of Wells		Two	Two	0ne
Total GPM		800	1500	1000
Solution Number:		IA	IB	IC
Identification	Units			·
Net Returns	DOL.	10,366.67	866.56	9,276.58
Net Kilocalories	MILLION	1,191.30269	1,328,83645	1,234.28077
Irrigated Crops ^A /	1			
RCG RWGSBDC	AC AC	42.2 103.7	176.9 103.7	84.3 103.7
Dryland Crops ^A / DLGSS	AC	414.1	279.3	371.9
Crop Products <u>B</u> /				v · · ·
GSNJ Corn Wheat Grain Sorghum Soybeans	AUM BU BU CWT BU	310 5,698 5,185 8,696 3,629	209 23,889 5,185 5,866 3,629	278 11,833 5,185 7,812 3,629
Croping System ^C /				
Con Tillage Red Tillage	AC AC	145.9	280.7	188.0
Monthly Labor Requirements				
March April May June July August September October November	HR. HR. HR. HR. HR. HR. HR.	165 104 47 181 204 55 84	165 151 95 209 209 94 84 85	165 119 62 208 209 68 84
Monthly Hired Labor			•	
March April May June July August September October November	HR. HR. HR. HR. HR. HR. HR. HR.	36	29 57 48 	34 12

TABLE LXV (Continued)

				
Solution Number:		IA	IB	IC
Identification	Units			
Limited Labor Months				
June 8-22 September 15-29 October 1-15	HR. HR. HR.	 84	 84	 84
Monthly Irrigation Requirements				
March April May June July August September	ACIN ACIN ACIN ACIN ACIN ACIN	311 479 622 303 1,029 1,029	311 1,018 622 1,274 2,000 1,820	311 648 622 607 1,333 1,301
October November	ACIN ACIN	311 311	311 311	311 311
Total Water Used	ACIN	4,435	7,669	5,445
cs1s ^D /	AC	149.9	280.7	188.0
Capital	•			•
Operating Investment	DOL.	8,991.90 40,424.28	13,441.21 73,724.46	10,382.27 43,283,53
Energy Inputs				
Nitrogen Phosphate Herbicide Insecticide Diesel Oil Natural Gas	CWT CWT LB. LB GALS. QTS. 1000 CUFT.	415.9 72.9 322.6 456.3 2,914.9 738.6 3,766.786	518.0 140.3 524.7 456.3 3,453.9 1,094.4 6,505.493	479.1 94.0 385.7 456.3 3,083.3 849.4 4,622.608
Machinery	DOL.	4,495.31	7,292.63	5,369.45

 $[\]underline{A'}$ RCG, Reduced tillage corn grain; RWGSBDC, Reduced tillage wheat grain soybean double crop; DLGSS, Dryland grain sorghum sandy soil.

 $[\]frac{B}{G}$ GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{\text{C}}/\text{For irrigated}$ acreage only, Con refers to conventional and Red means reduced tillage.

 $[\]underline{\mathrm{D}}/\mathrm{CSIS},$ Circular sprinkler irrigation system used.

TABLE LXVI

OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTION ONE FOR THE 1440 ACRE SANDY LOAM FARMS

	•			
Farm Size			1440 Acres	
Number of Wells	•	Three	Three	Two
Total GPM		1220	2250	2000
Solution Number:		IIA	IIB	IIC
Identification	Units			
Net Returns	DOL.	21,132.11	13,646.22	22,073.18
Net Kilocalories	MILLION	3,228.59608	3,197.9264	3,370.18875
Irrigated CropsA/				
RWGSBDC RCG	AC AC	200.0	207.4	207.4 168.8
Dryland Crops ^{A/} DLGSS	AUM	1,240	1,232	1,063
Crop Products <u>B</u> /				
GSNJ Wheat Grain Sorghum Soybeans Corn	AC BU CWT BU BU	930.0 10,000 26,040 7,000	924.4 10,370 25,884 7,259	797.8 10,370 22,340 7,259 22,784
Cropping System ^{C/}				· · · · · · · · · · · · · · · · · · ·
Con Tillage Red Tillage	AC AC	200	207.4	376.2
Monthly Labor Requirements				
March April May June July August September October November	HR. HR. HR. HR. HR. HR. HR. HR.	143 165 62 187 187 84 162 32	143 165 64 187 187 87 168 33	143 165 125 187 187 136 168 99
Monthly Hired Labor				
March April May June July August September	HR. HR. HR. HR. HR. HR.	397 65 234 280 	395 65 232 282 5	387 124 338 348
October November	HR. HR.	:	 	

TABLE LXVI (Continued)

Solution Number:		IIA	IIB	IIC
Identification	Units			
Limited Labor Months				·
June 8-22 September 15-29 October 1-15	HR. HR. HR.	 162	 168	 168
Monthly Irrigation Requirements	•			
March April May June July August September October November	ACIN ACIN ACIN ACIN ACIN ACIN ACIN ACIN	600 600 1,200 1,400 1,600 600 600	622 622 1,244 1,451 1,659 622 622	622 1,297 1,244 1,215 2,667 2,604 622 622
Total Water Used	ACIN	6,600	6,844	10,894
CSIS ^D / Capital	AC	200.0	207.4	376.2
Operating Investment	DOL. DOL.	18,836.80 94,365.35	18,914.73 119,498.80	24,487.53 92,814.77
Energy Inputs			•	
Nitrogen Phosphate Herbicide Insecticide Diesel Oil Natural Gas	CWT CWT LB. GALS. QTS. 1000 CUFT.	860.0 100.0 500.0 1,240.0 7,168.0 1,396.8 5,610.000	865.2 103.7 518.3 1,232.6 7,156.1 1,420.8 5,817.777	1,118.3 188.1 771.7 1,232.6 7,831.2 1,866.4 9,248.039
Machinery	DOL.	7,724.80	7,900.50	11,404.18
				

 $[\]underline{Af}$ RCG, Reduced tillage corn grain; RWGSBDC, Reduced tillage wheat grain soybean double crop; DLGSS, Dryland grain sorghum sandy soil.

 $[\]underline{{\sf B}\prime}_{\sf GSNJ},$ Grain sorghum stubble graze November-January.

 $[\]underline{\text{C}}/\text{For irrigated}$ acreage only, Con refers to conventional and Red means reduced tillage.

 $[\]underline{\mathrm{D}}/\mathrm{CSIS},$ Circular sprinkler irrigation system used.

TABLE LXVII

OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTION ONE FOR THE 2680 ACRE SANDY LOAM FARMS

Farm Size			2680 Acres	
Number of Wells		Six .	Six	Four
Total GPM		2400	4500	4000
Solution Number:		IIIA	IIIB	IIIC
Identification	Units			
Net Returns	DOL.	35,916.94	20,890.50	37,297.12
Net Kilocalories	MILLION	5,893.76376	5,832.42388	5,873.2725
Irrigated CropsA/				
RCG RWGSBDC	AC AC	400.0	414.8	40.0 414.8
Dryland Crops <u>A</u> /			2.	
DLGSS	AC	2,280.0	2,265.2	2,225.2
Crop Products ^B /				
GSNJ Wheat Grain Sorghum Soybeans Corn	AUM BU CWT BU BU	1,710 20,000 47,880 14,000	1,698 20,741 47,569 14,519	1,668 20,741 46,728 14,519 5,403
Cropping System ^C /				
Con Tillage Red Tillage	AC AC	400	414.8	 454.8
Monthly Labor Requirements	•			
March April May June July August September October November	HR. HR. HR. HR. HR. HR. HR.	121 143 124 165 165 165 165 64	121 143 128 165 165 165 165 66	121 143 143 165 165 165 165 81
Monthly Hired Labor	· · · · · · · · · · · · · · · · · · ·			
March April May June July August September October November	HR. HR. HR. HR. HR. HR. HR.	877 285 610 712 3 	874 285 605 715 9 171	872 299 630 731 20 171

TABLE LXVII (Continued)

Solution Number:		IIIA	IIIB	IIIC
Identification	Units			
Limited Labor Months				
June 8-22 September 15-29 October 1-15	HR. HR. HR.	 324	 336	 336
Monthly Irrigation Requirements				
March April May June	ACIN ACIN ACIN	1,200 1,200 2,400	1,244 1,244 2,488	1,244 1,404 2,488 288
July August September October	ACIN ACIN ACIN ACIN	2,800 3,200 1,200	2,903 3,318 1,244	3,191 3,542 1,244
November Total Water Used	ACIN	1,200 13,320	1,244 13,688	1,244
csis <u>D</u> /	AC	400	414.8	454.8
Capital				
Operating Investment	DOL. DOL.	35,349.60 184,826.70	35,505.45 235,093.61	36,826.93 178,931.82
Energy Inputs				
Nitrogen Phosphate Herbicide Insecticide Diesel Oil Natural Gas	CWT CWT LB. LB. GALS. QTS. 1000 CUFT.	1,620.0 200.0 1,000.0 2,280.0 13,296.0 2,689.3 11,220.000	1,630.4 207.4 1,037.0 2,265.2 13,272.3 2,737.6 11,635.555	1,690.4 277.4 1,097.1 2,265.2 13,432.4 2,843.3 12,448.973
Machinery	DOL.	15,035.60	15,387.01	16,217.83

 $[\]underline{A'}$ RCG, Reduced tillage corn grain; RWGSBDC, Reduced tillage wheat grain soybean double crop; DLGSS, Dryland grain sorghum sandy soil.

 $[\]underline{B}^{\prime}\mathsf{GSNJ},$ Grain sorghum stubble graze November-January.

 $[\]underline{\text{C}'}\textsc{For}$ irrigated acreage only, Con refers to conventional and Red means reduced tillage.

 $[\]underline{\mathrm{D}}/\mathrm{CSIS},$ Circular sprinkler irrigation system used.

TABLE LXVIII

OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTION FOUR FOR THE 560 ACRE CLAY LOAM FARMS

Units DOL. MILLION	Two 800 IA -27,030.08	560 Acres Two 1500	One 1000
DOL.	800 IA	1500	1000
DOL.	IA		
DOL.		IB	IC
DOL.	-27,030.08		
	-27,030.08		
MILLION	- ·	-43,208.98	-31,976.82
	1,930.90759	2,731.55734	2,159.78712
AC AC	88.8 133.3	166.7 250.0	111.1 166.6
AC	337.9	143.3	282.3
AUM AUM TON CWT	546 342 2,665 7,448	1,025 274 5,000 8,577	683 323 3,333 7,771
AC AC	88.8 133.3	166.7 250.0	111.1 166.6
• • • • • • • • • • • • • • • • • • •			
HR. HR. HR. HR. HR. HR. HR.	165 150 162 209 153 55 82 	165 187 187 209 146 105 105 52	165 166 187 209 151 69 103 34
HR. HR. HR. HR. HR. HR.	39 150 	17 17 17 289 	33 15 190
	ACC AC AC AUM TONT ACC AC HRR HRR HRR HRR HRR HRR HRR	AC 88.8 AC 133.3 AC 337.9 AUM 546 AUM 342 TON 2,665 CWT 7,448 AC 88.8 AC 133.3 HR. 165 HR. 150 HR. 162 HR. 209 HR. 153 HR. 95 HR. 227 HR. 82 HR. 27 HR. 27	AC 88.8 166.7 AC 337.9 143.3 AUM 546 1,025 AUM 342 274 TON 2,665 5,000 CWT 7,448 8,577 AC 88.8 166.7 AC 133.3 250.0 HR. 165 165 HR. 150 187 HR. 162 187 HR. 209 209 HR. 153 146 HR. 55 105 HR. 82 105 HR. 82 105 HR. 27 52 HR. 27 52 HR. 27 52

TABLE LXVIII (Continued)

Solution Number:		IA	IB	IC
Identification	Units			
_imited Labor Months				
June 8-22	HR.			
September 15-29	HR.			
October 1-15	HR.			
Monthly Irrigation Requirements				
March	ACIN	533	1,000	666
April	ACIN	1,066	2,000	1,333
May	ACIN	1,066	2,000	1,333
June	ACIN	444	833	555
July	ACIN	1,066	2,000	1,333
August	ACIN	1,066	2,000	1,333
September	ACIN	533	1,000	666
October	ACIN			
November	ACIN	533	1,000	666
otal Water Used	ACIN	6,307	11,833	7,886
SISD/	AC ,	222.1	416.7	277.7
Capital				
Operating	DOL.	6,778.07	8,614.93	7,303.17
Investment	DOL.	26,882.95	44,689.01	29,904,46
***************************************		20,002.50	71,000101	25,501010
nergy Inputs				
Nitrogen	CWT	461.9	866.0	577.6
Phosphate	CWT			
Herbicide	LB.	166.3	312.5	208.1
Insecticide	LB.	222.1	416.7	277.7
Diesel	GALS.	3,756.4	4,399.0	3,940.4
0i1	QTS.	880.3	1,386.6	1,024.9
Natural Gas	1000	4,451.660	8,352.083	5,566.663
	CUFT.			•
Machinery	DOL.	7,296.95	12,694.30	8,839.87

 $[\]underline{\underline{Af}}$ CSMI, Conventional tillage grain sorghum moderate irrigation; RSRSCL, Reduced tillage silage and rye double crop; DLGSC, Dryland grain sorghum.

 $[\]underline{B}/\text{SGGOOM},$ Small grain graze out October-May; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{^{\text{C}/}}\text{For irrigated}$ acreage only, Con refers to conventional and Red means reduced tillage.

 $[\]underline{D}/\text{SIS},$ Surface irrigation system used.

TABLE LXIX

OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTION FOUR FOR THE 1440 ACRE CLAY LOAM FARMS

Farm Size		1440 Acres					
Number of Wells		Three	Three	Two			
Total GPM		1200	2250	2000			
Solution Number:		IIA	IIB	IIC			
Identification	Units			·.			
Net Returns	DOL.	-56,109.05	-80,742.44	-73,390.44			
Net Kilocalories	MILLION	3,986.97281	5,187.09020	4,901.6337			
Irrigated CropsA/							
CSMI RSRSCL	AC AC	133.3 200.0	250.0 375.0	222.3 333.4			
Dryland Crops ^A							
DLGSC	AC	1,106.7	815.0	884.4			
Crop Products <u>B</u> /							
SGGOOM GSNJ Corn Silage Grain Sorghum	AUM AUM Ton CWT	820 963 4,000 17,773	1,538 861 7,500 19,465	1,367 886 6,668 19,063			
Croping System ^{C/}							
Con Tillage Red Tillage	AC AC	133.3 200.0	250.0 375.0	222.3 333.4			
Monthly Labor Requirements	• 1						
March April May June July August September October November	HR. HR. HR. HR. HR. HR. HR. HR.	143 165 165 187 187 84 124 	143 165 165 187 187 157 187 78	143 165 165 187 187 140 187 70			
Monthly Hired Labor							
March April May June July August September October	HR. HR. HR. HR. HR. HR.	410 157 78 568 217 	377 237 291 776 206 7- 45	385 218 240 727 209 19			

TABLE LXIX (Continued)

Solution Number:		IIA	IIB	IIC
Identification	Units			
		**		
Limited Labor Months				
June 8-22	HR.		1	
September 15-29	HR.			
October 1-15	HR.			
Monthly Irrigation Requirements				
March	ACIN	800	1,500	1,333
April	ACIN	1,600	3,000	2,667
May	ACIN	1,600	3,000	2,667
June	ACIN	666	1,250	1,111
July	ACIN	1,600	3,000	2,667
August	ACIN	1,600	3,000	2,667
September	ACIN	800	1,500	1,333
October	ACIN			
November	ACIN	800	1,500	1,333
Total Water Used	ACIN	9,466	17,750	15,779
SIS <u>D</u> /	AC	333.3	625.0	555.7
Capital				
Operating	DOL.	15,185.07	17,938.40	17,283.50
Investment	DOL.	51,810.49	78,517.52	65,935.78
Energy Inputs				
Nitrogen	CWT	693.3	1,300.0	1,155.7
Phosphate	CWT			·
Herbicide	LB.	250.0	468.8	416.7
Insecticide	LB.	333.3	625.0	555.6
Diesel	GALS.	8,876.0	9,838.5	9,609.6
0i1	QTS.	1,644.9	2,403.9	2,223.3
Natural Gas	1000	6,681.666	12,528.125	11,137.503
Machinery	CUFT. DOL.	12,169.20	20,259.45	18,335.13

 $[\]underline{\underline{A'}}_{\text{CSMI}}$, Conventional tillage grain sorghum moderate irrigation; RSRSCL, Reduced tillage silage and rye double crop; DLGSC, Dryland grain sorghum.

 $[\]underline{\rm Bf}{\rm SGG00M}$, Small grain graze out October-May; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{^{\text{C}}}/_{\text{For irrigated acreage only, Con refers to conventional and Red means reduced tillage.}}$

 $^{^{\}underline{D}\!/}$ SIS, Surface irrigation system used.

TABLE LXX

OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTION FOUR FOR THE 2680 ACRE CLAY LOAM FARMS

	•	1		
Farm Size		•	2680 Acres	
Number of Wells		Six	Six	Four
Total GPM		2400	4500	4000
Solution Number:		IIIA	IIIB	IIIC
Identification	Units			
Net Returns	DOL.	-110,577.66	-160,707.74	-147,841.10
Net Kilocalories	MILLION	7,610.69423	10,010.929	01 9,439.15880
Irrigated CropsA/				
CSMI RSRSCL	AC AC	266.7 400.0	500.0 750.0	444.4 666.6
Dryland Crops ^A				
DLGSC	AC	2,013.3	1,430.0	1,568.9
Crop Products ^B /				
SGGOOM GSNJ Corn Silage Grain Sorghum	AUM AUM TON CWT	1,640 1,777 8,000 33,347	3,075 1,572 15,000 36,730	2,733 1,621 13,333 35,924
Cropping System ^C /				
Con Tillage Red Tillage	AC AC	266.7 400.0	500.0 750.0	444.4 666.6
Monthly Labor Requirements				
March April May June July August September October November	HR. HR. HR. HR. HR. HR. HR.	121 143 143 165 165 165 165 84	121 143 143 165 165 165 165 	121 143 143 165 165 165 165
Monthly Hired Labor				
March April May June July August September October November	HR. HR. HR. HR. HR. HR. HR.	903 469 343 1,274 586 3 	837 630 769 1,689 564 150 300	853 592 668 1,590 569 114 248

TABLE LXX (Continued)

Solution Number:		AIII	IIIB	IIIC
Identification	Units			
Limited Labor Months				• .
June 8-22	HR.	,		=- 1
September 15-29	HR.			
October 1-15	HR.			
Monthly Irrigation Requirements				
March	ACIN	1,600	3,000	2,666
April	ACIN	3,200	6,000	5,333
May	ACIN	3,200	6,000	5,333
June	ACIN	1,333	2,500	2,222
Ju1y	ACIN	3,200	6,000	5,333
August	ACIN	3,200	6,000	5,333
September	ACIN	1,600	3,000	2,666
October November	ACIN ACIN	1,600	3,000	2,666
Total Water Used	ACIN	18,933	35,500	31,553
sis <u>D</u> /	AC	666.7	1,250.0	1,111.0
Capital				
Operating	DOL.	28,698.13	34,204.80	32,893.00
Investment	DOL.	99.792.97	153,207.04	128,041.50
Energy Inputs				
Nitrogen	CWT	1,386.7	2,600.0	2,310.9
Phosphate	CWT			
Herbicide	LB.	500.0	937.5	883.8
Insecticide	LB.	666.7	1,250.0	1,111.0
Diesel	GALS.	16,672.0	18,597.0	18,138.4
011	QTS.	3,181.9	4,699.7	4,338.1
Natural Gas	1000	1,336.333	25,056.250	22,270.830
Machinery	CUFT. DOL.	23,932.40	40,112.90	36,258.47

 $[\]underline{A/}_{\text{CSMI}}$, Conventional tillage grain sorghum moderate irrigation; RSRSCL, Reduced tillage silage and rye double crop; DLGSC, Dryland grain sorghum.

 $[\]underline{B}/\mathrm{SGG00M},~\mathrm{Small}$ grain graze out October-May; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{\text{C}}/\text{For irrigated}$ acreage only, Con refers to conventional and Red means reduced tillage.

 $[\]underline{\mathbf{D}}\!\!/\!_{\mathsf{SIS}}$, Surface irrigation system used.

TABLE LXXI

OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTION FOUR FOR THE 560 ACRE SANDY LOAM FARMS

Farm Size			560 Acres			
Number of Wells		Two	Two	0ne 1000		
Total GPM		800	1500			
Solution Number:		IA	IB	IC		
Identification	Units					
Net Returns	t Returns DOL.		-62,135.54	-44,110.57		
Net Kilocalories	MILLION	2,064.06951	2,490.30119	2,185.91518		
Irrigated Crops ^A /						
RSRCSL	AC	148.1	277.8	185.1		
Dryland Crops <u>A</u> /						
DLGSS	AC	411.9	282.2	375.9		
Crop Products <u>B</u> /						
SGGOOM GSNJ	AUM AUM	60 <i>7</i> 309	1,139 212	759 281		
Corn Silage	TON	2,961	5,556	3,703		
Grain Sorghum Cropping System ^C	CWT	8,651	5,927	7,872		
Con Tillage	AC	 ,	. 			
Red Tillage	AC	148.1	277.8	185.1		
Monthly Labor Requirements						
March	HR.	165 89	160 89	165 89		
April May	HR. HR.	121	187	151		
June July	HR. HR.	168 209	148 209	162 209		
August	HR.	54	102	68		
September	HR.	84	158	105		
October November	HR. HR.	31	 58	38		
Monthly Hired: Labor						
March	HR.	27	·	18		
April	HR. HR.	 	40	 		
May June	HR.		40			
July	HR.	11	61	25		
August	HR.		_J			
September October	HR. HR.	 	!	 		
November	HR.	<u></u> -				

TABLE LXXI (Continued)

Solution Number:		IA	IB	IC
Identification	Units			
Limited Labor	·		* * * * * * * * * * * * * * * * * * * *	
Months				
June 8-22	HR.			
September 15-29	HR.			
October 1-15	HR.			
Monthly Irrigation				
Requirements				
March	ACIN	444	833	555
April April	ACIN	444	833	555
May	ACIN	444	833	555
June	ACIN	533	1,000	666
July	ACIN ACIN	1,066 1,066	2,000 2,000	1,333 1,333
August September	ACIN	444	833	555
October	ACIN	747	055	
November	ACIN	592	1,111	740
Total Water Used	ACIN	5,033	9,444	6,294
cs1\$ <u>D</u> /	AC	148	277.8	185.1
Capital			•	
Operating	DOL.	9,278.80	11,707.20	9,973.00
Investment	DOL.	40,626.61	72,647.26	43,086.40
Energy Inputs				
Ni trogen	CWT	620.5	918.9	705.8
Phosphate	CWT	74.0	138.9	92.6
Herbicide	LB.	222.1	416.4	277.7
Insecticide	LB.	560.0	560.0	560.0
Diesel	GALS.	2,971.2	3,023.1	2,986.1
0i1	QTS.	791.3	1,230.4	916.9
Natural Gas	1000	4,164.062	7,812.500	5,207.031
Machinery	CUFT. DOL.	4,431.23	7,298.09	5,250.77

 $[\]underline{A/}{\rm RSRCSL},$ Reduced tillage silage and rye double crop; DLGSS, Dryland grain sorghum.

 $[\]underline{B}' \mathsf{SGG00M}\text{, Small}$ grain graze out October-May; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{\text{C}}/\text{For irrigated}$ acreage only, Con refers to conventional and Red means reduced tillage.

 $[\]underline{\mathrm{D}}\!/_{\mathrm{CSIS}},$ Circular sprinkler irrigation system.

TABLE LXXII

OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTION FOUR FOR THE 1440 ACRE SANDY LOAM FARMS

Farm Size			1440 Acres			
Number of Wells		Three	Three	Two		
Total GPM		1200	2250	2000		
Solution Number:		IIA	IIB	IIC		
Identification	Units					
Net Returns	DOL.	-86,695.79	-115,019.17	-101,437.46		
Net Kilocalories	MILLION	4,786.84581	5,425.73698	5,273.7721		
Irrigated Crops ^A / RSRCSL	AC	222.2	416.7	370.4		
Dryland Crops ^A	No.		41017	37017		
DLGSS Crop Products B/	AC	1,217.8	1,023.3	1,069.6		
SGGOOM GSNJ Corn Silage Grain Sorghum	AUM AUM TON CWT	911 913 4,444 25,573	1,708 768 8,333 21,490	1,519 802 7,408 22,461		
Cropping System ^C /						
Con Tillage Red Tillage	AC AC	222.2	416.7	370.4		
Monthly Labor Requirements						
March April May June July August September October November	HR. HR. HR. HR. HR. HR. HR.	143 165 165 187 187 82 126 	143 165 165 187 187 154 187	143 165 165 187 187 137 187 		
Monthly Hired	n ĸ.	40	6/			
March April May June July August September	HR. HR. HR. HR. HR. HR.	391 65 17 269 317 	343 65 176 240 393 	354 65 138 247 375 24		
October November	HR. HR.	- 2	 	 		

TABLE LXXII (Continued)

Solution Number:		IIA	IIB	IIC
Identification	Units			
Limited Labor Months				
June 8-22	HR.			
September 15-29	HR.			
Uctober 1-15	HK.			
Monthly Irrigation Requirements				
March	ACIN	666	1,250	1,111
April	ACIN	666	1,250	1,111
May		666	1,250	1,111
June		800	1,500	1,333
July		1,600	3,000	2,667
August		1,600	3,000	2,667
September		666	1,250	1,111
October				·
November	ACIN	888	1,666	1,481
Total Water Used	ACIN	7,555	14,166	12,594
csis _D /	AC	222.2	416.7	370.4
Capital		•		
Operating	DOL.	20,892.80	24,532.80	23,667.00
Investment	DOL.	95,526.91	120,682.90	92,419.19
Energy Inputs				
Nitrogen	CWT	1,231.1	1,678.3	1,571.9
Phosphate		111.1	208.3	185.2
Herbicide	LB.	333.3	625.0	555.6
Insecticide	ed Labor s. ne 8-22 HR. ptember 15-29 HR. tober 1-15 HR. ly Irrigation rements rch ACIN ril ACIN ACIN ACIN ACIN ACIN ACIN ACIN ACIN		1,440.0	1,440.0
Diesel		1,440.0 7,576.9	7,654.7	7,636.2
0i1	QTS.	1,499.4	2,157.1	2,000.8
Natural Gas	1000	6,250.000	11,718.750	10,417.968
	CUFT.			
Machinery	DOL.	7,891.91	12,189.13	11,167.01

 $[\]underline{\underline{\mathcal{M}}}_{\mbox{RSRCSL}},$ Reduced tillage silage and rye double crop; DLGSS, Dryland grain sorghum.

 $[\]underline{B'} SGGOOM$, Small grain graze out October-May; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{\text{C}'}\textsc{For}$ irrigated acreage only, Con refers to conventional and Red means reduced tillage.

 $[\]underline{D}^{\prime}$ CSIS, Cricular sprinkler irrigation system.

TABLE LXXIII

OPTIMAL SOLUTIONS FOR OBJECTIVE FUNCTION FOUR FOR THE 2680 ACRE SANDY LOAM FARMS

Farm Size		2680 Acres										
Number of Wells		Six	Six	Four								
Total GPM		2400	4500	4000								
Solution Number:		IIIA	IIIB	IIIC								
Identification	Units											
Net Returns	DOL.	-169,650.86	-227,185.62	-199,846.87								
Net Kilocalories	MILLION	9,010.26323	10,288.04556	9,983.65955								
Irrigated Crops ^A / RSRCSL	AC	444.4	833.3	740.7								
Dryland Crops ^{A/} DLGSS	AC	2,235.6	1,846.7	1,939.3								
Crop Products ^{B/} SGG00M GSNJ Corn Silage Grain Sorghum	AUM AUM Ton Cwt	1,822 1,676 8,889 46,947	3,417 1,385 16,667 38,780	3,037 1,454 14,813 40,725								
Cropping System ^C /Con Tillage	AC		4 (1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4									
Red Tillage	AC	444.4	833.3	740.7								
Monthly Labor Requirements												
March April May June July August September October November	HR. HR. HR. HR. HR. HR. HR. HR.	121 143 143 165 165 164 165 93	121 143 143 165 165 165 166 	121 143 143 165 165 165 165 1-5								
Monthly Hired Labor	eren eren eren eren eren eren eren eren	.1										
March April May June July August September October November	HR. HR. HR. HR. HR. HR. HR. HR.	866 285 221 679 785 88 	769 285 540 621 937 143 310	792 285 464 635 901 109 257 12								

TABLE LXXIII (Continued)

Solution Number:		IIIA	IIIB	IIIC
Identification	Units		. 1	
Limited Labor Months				
June 8-22 September 15-29 October 1-15	HR. HR. HR.			
Monthly Irrigation Requirements				
March April May June July August September October November	ACIN ACIN ACIN ACIN ACIN ACIN ACIN ACIN	1,333 1,333 1,333 1,600 3,200 3,200 1,333	2,500 2,500 2,500 3,000 6,000 6,000 2,500	2,222 2,222 2,222 2,666 5,333 5,333 2,222 2,962
Total Water Used	ACIN	15,111	28,333	25,183
csis <u>D</u> /	AÇ	444.4	833.3	740.7
Capital			e e e e e e e e e e e e e e e e e e e	
Operating Investment	DOL. DOL.	39,461.60 187,149.81	46,741.60 237,461.79	45,007.40 180,934.40
Energy Inputs				
Nitrogen Phosphate Herbicide Insecticide Diesel Oil Natural Gas	CWT CWT LB. LB. GALS. QTS. 1000 CUFT.	2,362.2 222.2 666.7 2,680.0 14,113.8 2,895.8 12,500.000	3,256.7 416.7 1,250.0 2,680.0 14,269.3 4,210.3 23,437.500	3,043.6 370.3 1,111.0 2,680.0 14,232.3 3,897.1 20,832.031
Machinery	DOL.	15,369.80	23,964.30	21,916.95

 $[\]underline{\underline{\mathsf{A}}}\mathsf{RSRCSL}$, Reduced tillage silage and rye double crop; DLGSS, Dryland grain sorghum.

 $[\]underline{B^{\prime}} SGGOOM$, Small grain graze out October-May; GSNJ, Grain sorghum stubble graze November-January.

 $[\]underline{^{C\!/}} For \ irrigated \ acreage \ only, Con \ refers to \ conventional \ and \ Red \ means \ reduced \ tillage.$

 $[\]underline{\mathrm{D}}\!/\mathrm{cSIS}$, Circular sprinkler irrigation system.

APPENDIX D

SHADOW PRICES FOR SPECIFIED CROPS AND AND CROPPING METHODS

TABLE LXXIV

SHADOW PRICES FOR SPECIFIED CROPS AND CROPPING METHODS FOR OBJECTIVE FUNCTIONS ONE AND FOUR, THREE FARMA/ SIZES AND IRRIGATION SITUATIONS, CONVENTIONAL, REDUCED AND DRYLAND TILLAGE CLAY AND SANDY LOAM SOILS

OBJECTIVE FUNCTION					IB/									IVC/				
FARM SIZE	-	60 Acre	s		440 Acre	8		680 Acre	16		560 Acres			1440 Ac	res	1	2680 Ac1	res
SOLUTION NUMBER ACTIVITIES	IA	B	IC	IIA	IIB	IIC	IIIA	IIIB	IIIC	<u>IA</u>		10	IIX	<u> YIB</u>	IIC	IIIA	IIIB	IIIC
CLAY LOAM SOILS									٠.,									
Conventional Tillage																		
Theat Grain Theat Graze-Out Sorghum Moderate Irrigation Sorghum Heavy Irrigation Sudan Hay Soybeans	1.20 30.81 24.64 63.35 115.70 BSO	1.04 44.19 26.87 26.36 75.77 BS	1.34 32.16 23.78 62.49 114.84 BSO	1.71 32.04 26.02 65.30 114.71 BSO	2.15 33.71 24.79 65.41 113.89 BSO	1.85 33.39 25.16 64.44 113.85 BSO	2.67 32.82 25.21 66.99 116.34 40.47	2.78 BSO 25.19 68.77 115.33 BSO	2.81 35.14 25.10 68.60 115.16 BSO	1.60303 3.61594 BS BSO .15293 6.07576	BS 3.78939 3.94231	BSO	.32858 3.06488 BS 3.05870 3.21163 9.13446	.47124 2.03703 BS 3.78939 .37899 9.86515	.43006 2.88221 BS 3.78939 1.98886 9.86515	BS 3.78939 3.94231	1.98103 2.07303 BS 3.78939 3.94231 9.86515	1.98103 3.25940 BS .85570 1.00863 6.93146
Reduced Tillage Silage and Rye Graze Double Crop No Year Wheat Rotation Theat and Sorghum Double Crop Theat Graze and Sudan Hay Double Crop Theat-Fallow-Sorghum Heavy Irrigation Theat-Fallow-Sorghum Moderate Irrigation	BSO BS BS 117.37 BS	BSO BS BS 93.78 BS 7.08	BSO BS BS 117.48 BS 1.11	BSO BS BS 116.68 BS 1.18	BSO BS BS 116.86 BS .98	BSO BS BS 116.78 BS	BSO BS BS 118.00 BS	BSO BS BS 87.13 BS	BSO BS BS 117.67 BS	BS 1.69928 .35603 .38911 .20854 .33779	BS0 1.36742	BS 3.18080 .39564 BSO 1.02071 1.00922	BSO 1.12386 .80329	BS BSO .03609 BSO 1.08879 .62911	BS BSO BSO BSO 1.07932 .69164	1.59114	1.4086 2.49433	BS 3.18080 .59372 .86450 1.02071
Dryland Tillage																		
Theat Grain Sorghum Small Grain Graze-Out	BS 1.58 14.70	23.19 25.50 38.28	BS 1.59 14.70	BS 1.95 15.09	BS 2.82 15.63	BS 1.94 15.09	2.49 16.29	BS 3.72 5.25	BS 3.72 16.29	BSO BS .51496	.14208 BS .51496	.68492 BS .51496	BS	.23198 BS .51496	.14208 BS .51496	.68492 BS .51496	.68492 BS .51496	.68492 BS .51496
SANDY LOAM SOILS Irrigated Crops																		
Conventional Tillage																		
Corn Grain Corn Silage Rye Graze-Out	2.86 25.29 22.11	11.43 23.84 22.06	10.60 23.45 20.12	6.55 26.01 40.48	12.11 23.69 22.06	10.57 24.62 20.39	8.86 26.94 41.53	14.24 24.62 24.49	13.26 24.82 23.04	1.94899 .63902 6.33588	.63902	.63902	1.94899 .63902 3.54933	1,94899 .63902 3,54933	1.94899 .63902 3.54933	.30613 .63092 4.91838	1.94899 .63902 3.54933	.30613 .63902 4.91883
Reduced Tillage																		
Corn Grain Gilage and Rye Graze Double Crop Theat and Soybean Double Crop	BSO BSO BS	BS BSO BS	BS BSO BS	37.46 BSO BS	.86 BSO BS	BS BSO BS	35.75 BSO BS	1.72 BSO BS	BS BSO BS	2.85619 BS 7.33490	2.85619 BS 7.79125	2.26504 BS 7.33490	BS	2.26504 BS 5.6004	2.26504 BS 5.6004	1.53487 BS 7.79125	BS	BS
Dryland Tillage															• • • •			
heat Frain Sorghum Mall Grain Graze—Out	BSO BS 24.69	BSO BS 24.09	BSO BS 24.36	BSO BS 23.61	BSO BS 23.61	BSO BS 23.61	BSO BS 23.97	BSO BS 23.97	BSO BS 23.97	BSO BS 1.51584	BSO BS 1.51584	BSO BS 1.51584	1.11330 BS 1.51584	1.11330 BS 1.51584	1.11330 BS 1.51584	BS	BSO BS 1.51584	BSO BS 1.51584

 $[\]frac{A}{BS}$ refers to those crops in the Solution at specified levels, while BSO refers to those crops in the solution at a zero level.

⁻ $\underline{\mathbf{B}}/\mathbf{F}$ igures for objective function one measured in dollars.

C/Figures for objective function four measured in Million of kilocalories of energy.

ATIV

Harold Joe Schwartz

Candidate for the Degree of

Master of Science

Thesis: AN ECONOMIC ANALYSIS OF ENERGY USE AND AGRICULTURAL OUTPUT

FOR REPRESENTATIVE FARMS IN THE OKLAHOMA PANHANDLE

Major Field: Agricultural Economics

Biographical:

Personal Data: Born at Lubbock, Texas, June 23, 1951, the son of H. Joe and Ann Schwartz.

Education: Graduated from Ropes High School, Ropesville, Texas, in May, 1969; received the Bachelor of Science degree from Texas Tech University, Lubbock, Texas, in May, 1973, with a major in Agricultural Economics; completed requirements for the Master of Science degree at Oklahoma State University, Stillwater, Oklahoma, in May, 1975.

Professional Experience: Employed as a Graduate Research Assistant in the Department of Agricultural Economics, Oklahoma State University, Stillwater, Oklahoma, 1973-1975; employed as a Teaching Assistant, Oklahoma State University, Fall, 1973.

Organization: American Agricultural Economics Association.