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mechanization index,  
(MI) based on the use  
of human and  
mechanical energy  
inputs, represents the

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percentage total works  
of tractor, human and  
that of the machinery  
and is calculated ...

## **Mechanization Index and Machinery Energy Ratio Assessment ...**

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model was developed  
to estimate

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simultaneously two mechanization indicators, Mechanization Index (MI) and Machinery Energy Ratio (MER), used to characterize a group of farms in a target farming region. Values of the two mechanization indicators could be obtained ...

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Mechanization Index  
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## **Energy Ratio ...**

A single hidden layer artificial neural network (ANN) model was developed to estimate simultaneously two mechanization indicators, Mechanization Index (MI) and Machinery Energy Ratio (MER), used ...

## **Mechanization Index and Machinery Energy Ratio**



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**Assessment ...**

Highest mechanization index, and machinery energy were acquired in the tillage operation of 94.09% and  $105.35 \pm 9.37$  MJ/ha while the lowest mechanization index, and machinery energy were in the harvesting operation with bags of 0.83%, and  $0.42 \pm 0.09$  MJ/ha.

**Mechanization  
status based on  
machinery**

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The mechanization index for paddy was medium at 0.64 in 1985 due to the manual transplanting operation and low level of mechanization of weeding and spraying operation (Fig. 2). This increased to high level of mechanization in the year 1990 due to the increasing number of tillage machinery available in the state of Punjab.

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## **Mechanization Index And Machinery Energy Ratio Assessment**

Mechanization of agriculture is an essential input in modern agriculture. It enhances productivity, ... capacity, precision, reliable and energy efficient equipment. Looking at the pattern of land holding in India, it may be noted that

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about 84 % of the holdings are below 1 ha.

## **MECHANIZATION AND TECHNOLOGY Overview**

renewable energy (solar energy, biogas, biomass and wind energy). 1.1 Human power Human beings are the main sources of power for operating small tools and implements at the farm. They are also

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employed for doing stationary work like threshing, winnowing, chaff cutting and lifting irrigation water. Of the

## **Farm power and Farm mechanization - RKRAJORIA**

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indicators:

Mechanization Index  
(MI) and Machinery

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Energy Ratio (MER) to  
characterize a group of  
farms in a target  
farming region in

Mexico. The agrarian  
structure of Nigerian  
agriculture has failed  
to make adequate  
contributions to the  
nation's economic  
development (Mrema  
and Odigboh, 1993).

**Measurement of  
agricultural  
mechanization index  
and ...**



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The level of mechanization in terms of hp ha<sup>-1</sup> is a quick index of mechanization but lacks the details of whether the available power is utilized and on what specific crops and operations are machines utilized. The index also assumes that all the areas for agriculture have the same level of mechanization which is not really the

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**Asian Journal of**

**Postharvest and**

**Mechanization**

Ratio Assessment

increasing the

Mechanization Index,

will not necessarily

increase energy ratio

and economic

productivity. Keywords:

Energy ratio, Economic

productivity, apple,

Mechanization index

Introduction Nowadays,

machinery and labour

are the main resources

for agricultural

operations, but

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machinery is gradually replacing

### **Estimation of a Mechanization Index and Its Impact on ...**

location and machinery were selected to perform the required tasks in the available amount of time.

Machinery power, time available and area cropped were used to estimate the energy usage per hectare. The efficiency of machine

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use was then  
quantified in terms of a  
mechanization index,  
energy  
required/available, fuel  
consumption and cost  
per ...

## **ENERGY USAGE OF AGRICULTURAL MACHINERY FOR CORN AND ...**

Mechanization index  
(MI) is the ratio of  
machinery energy  
(including fuel energy  
and machinery

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energy( $E_d$ ) to the sum of machinery and fuel( $E_d$ ), animal ( $E_a$ ) and human energy( $E_h$ ). It shows what contribution machinery energy has allocated to itself in garlic cultivation in used active energy. The higher value of this index towards

## **An Analysis of Energy Use and Estimation of a ...**

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tillers 63-76 10 Electric

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## Machinery Energy Ratio Assessment **Farm Power and Machinery - AgriMoon**

Mechanization of agriculture is an essential input in modern agriculture. It enhances productivity, besides reducing human drudgery and cost of cultivation. Mechanization also helps in improving utilization efficiency of other inputs, safety

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and comfort of the agricultural worker, improvements in the quality and value addition of the produce.

## **Mechanization and Technology | Department of Agriculture ...**

A mean mechanization index of 0.59 and a total machinery energy of 477.78 MJ/ha were recorded for the direct seeding paddy



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cultivation in Malaysia.

Highest mechanization

index and machinery

energy were obtained

in the harvesting

operation (0.99 and

336.81 MJ/ha) while the

lowest values were in

pesticides operations

(0.19 and 3.97 MJ/ha).

**Machinery**

**Utilization and**

**Production Cost of**

**Wetland ...**

Index of mechanization

and other productivity

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functions were used as indicators in assessing the impact of mechanization on agricultural production in Umuahia North LGA of Abia state, Nigeria. Analysis of research findings revealed that farmers in the area are predominantly small scale farmers with the major power source being human being. The level of agricultural mechanization was determined...

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