

# MAIZE VALUE CHAIN ANALYSIS IN ETHIOPIA THESISR

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**What is the value chain of maize?** The maize value chain can be divided into five categories: inputs; production; aggregation; processing; and marketing and distribution.

**What is the trend of maize production in Ethiopia?** While the national average yield of maize increased from 1.9 MT per hectare in 2003 to 4.2 MT per hectare in 2021 [7], there is a need to work towards reducing the maize yield gap to achieve sustainable food production for the ever-increasing population.

**What are the determinants of maize production in Ethiopia?** The results of this study revealed that DAP, Urea, farm size in hectare and number of participant had statistical significant relationship with the production of maize.

**What are the constraints for maize production in Ethiopia?** Unavailability of improved seed and lack of production inputs were the two major constraints reducing maize productivity, as reported by 62 and 60% of respondents, respectively.

**What is the value of maize?** Additionally, maize is rich in riboflavin, phosphorus, potash, iron, calcium, zinc, and vitamin B. Yellow maize has a high amount of vitamin A (carotenoids), while blue, purple, and red variety is rich in antioxidants and phenolic compounds (2).

**What are the 5 value chains?** The value chain framework encompasses five primary activities -- inbound operations, operations, outbound logistics, marketing and sales, and service -- and four secondary activities -- procurement and purchasing, human resource management (HRM), technological development and

company infrastructure.

**What factors transformed maize productivity in Ethiopia?** Increased use of improved maize varieties and mineral fertilizers, coupled with increased extension services and the absence of devastating droughts are the key factors promoting the accelerated growth in maize productivity in Ethiopia.

**What are the major challenges of crop production in Ethiopia?** The most common factors are recurrent drought, degradation of natural resources, lack of appropriate technologies and low levels of input use (fertilizer, pesticide, improved seeds), weak institutional support, inadequate agricultural research and extension, pests, and constraints in market development (Merga and Haji, ...

**What are the high value crops in Ethiopia?** Pulses also contribute significantly to Ethiopia's balance of payments. They are the third-largest export crop after coffee and sesame, contributing USD 90 million to export earnings in 2007/08.

**What is the use of maize in Ethiopia?** Material in Ethiopia Most of the produced maize is used in several traditional foods such as injera, kitta, genfo, kollo, nifro and a local beverage called tella, the most common foods in maize growing areas (Senayit, 1992).

**What are the major production constraints in Ethiopia agriculture?** Crop and livestock production account for roughly 65% and 25% of agricultural GDP. Improved inputs, enhanced management techniques, and expansion of irrigation farming help to boost agricultural output. However, significant constraints, such as limited access to finance and technology, slow potential gains.

**Which country has highest productivity of maize?** The U.S. produces more corn than any other nation.

**What are the value addition products of maize?** Chemicals such as ethanol and refined corn oil, starch, or industrial products like candies, cake mixtures, carbonated beverage, sorbitol and cosmetics are also prepared by the corn and corn is also used in the form of corn syrup or corn flakes [26] .

**What is the value chain of a crop?** An agricultural value chain is a system of people that work in various stages in crop production. The value chain contains

every person that works to get the crops from the farm where they were planted, to the consumer that will end up eating them.

### **What is the hierarchy of maize?**

**What is the value chain in animal farming?** The livestock value chain can be defined as the full range of activities involving different people that are required to bring a product (e.g. live animal, meat, milk, egg, day old chick, feed, medicine, leather, fiber, manure) to final consumers passing through the different phases of production, processing and ...

### **Soal dan Pembahasan Nilai Mutlak**

#### **Paragraf 1:**

Nilai mutlak adalah fungsi matematika yang memberikan nilai non-negatif untuk setiap bilangan real. Nilai mutlak dari suatu bilangan  $x$ , dilambangkan sebagai  $|x|$ , didefinisikan sebagai berikut:

- $|x| = x$  jika  $x \geq 0$
- $|x| = -x$  jika  $x < 0$

#### **Paragraf 2:**

**Soal 1:** Tentukan nilai mutlak dari  $|5|$  dan  $|-7|$ .

#### **Pembahasan:**

- $|5| = 5$  (karena  $5 \geq 0$ )
- $|-7| = -(-7) = 7$  (karena  $-7 < 0$ )

#### **Paragraf 3:**

**Soal 2:** Sederhanakan persamaan berikut:  $|-2x + 3| = 7$ .

#### **Pembahasan:**

Persamaan tersebut dapat dipecahkan menjadi dua kasus:

- Kasus 1:  $-2x + 3 \geq 0$  ( $x \leq 1,5$ )
- Kasus 2:  $-2x + 3 < 0$  ( $x > 1,5$ )

Untuk kasus pertama, persamaannya menjadi  $-2x + 3 = 7$ , sehingga  $x = 2$ . Untuk kasus kedua, persamaannya menjadi  $-(2x + 3) = 7$ , sehingga  $x = 5$ .

#### **Paragraf 4:**

**Soal 3:** Jika  $|x - 2| = 3$ , tentukan nilai  $x$ .

#### **Pembahasan:**

Persamaan tersebut dapat dipecahkan menjadi dua kasus:

- Kasus 1:  $x - 2 = 3$  ( $x = 5$ )
- Kasus 2:  $x - 2 = -3$  ( $x = -1$ )

#### **Paragraf 5:**

**Soal 4:** Grafik fungsi  $y = |x|$  adalah parabola yang terbuka ke arah...

#### **Pembahasan:**

Grafik fungsi  $y = |x|$  adalah parabola yang terbuka ke arah atas, karena nilai mutlak selalu menghasilkan nilai non-negatif.

### **Solution Manual for Human Computer Interaction by Kenny Z**

**Question 1:** Explain the concept of mental models in HCI.

**Answer:** Mental models are representations of how users think a system works. They help users predict the system's behavior and make decisions accordingly. In HCI, it's important to design systems that align with user's mental models to enhance usability and satisfaction.

**Question 2:** Discuss the importance of feedback in HCI.

**Answer:** Feedback is crucial in HCI because it provides users with information about their actions and the system's response. It helps users understand how the system

works, make informed decisions, and correct errors. Designing effective feedback mechanisms is essential for creating user-friendly experiences.

**Question 3:** Explain the role of cognitive ergonomics in HCI.

**Answer:** Cognitive ergonomics focuses on the cognitive aspects of interaction, such as memory, attention, and reasoning. It helps HCI practitioners understand how users process information and make decisions. By applying cognitive principles, designers can create systems that are mentally accessible and easy to use.

**Question 4:** Describe the advantages and disadvantages of using heuristic evaluation in HCI.

**Answer:** Heuristic evaluation is a usability inspection method where experts evaluate a system based on a set of predefined usability principles. Advantages include its low cost, time-efficiency, and the ability to identify a wide range of potential problems. However, it may not uncover all usability issues, and the results can be subjective and biased.

**Question 5:** Explain the concept of iterative design in HCI.

**Answer:** Iterative design is a user-centered design approach where designers create prototypes, test them with users, and refine the design based on user feedback. It allows HCI practitioners to validate their design decisions, identify areas for improvement, and ensure that the final product meets user needs and expectations.

## **Test Report IEC 60947-2: Frequently Asked Questions and Answers**

### **What is IEC 60947-2?**

IEC 60947-2 is an international standard that specifies the requirements for low-voltage switchgear and controlgear. It covers the construction, testing, and performance of devices such as switches, circuit breakers, and contactors.

### **What is the purpose of a test report for IEC 60947-2?**

A test report provides evidence that a device has been tested and meets the requirements of IEC 60947-2. It is used to demonstrate the safety and performance

of the device and can be a valuable tool for compliance and quality assurance.

### **What are the main requirements of IEC 60947-2?**

The main requirements of IEC 60947-2 include:

- Mechanical requirements: These cover the construction, materials, and dimensions of the device.
- Electrical requirements: These cover the electrical characteristics, such as rated voltage, current, and frequency.
- Safety requirements: These cover the protection of users and equipment, such as insulation and arc suppression.

### **What information should a test report for IEC 60947-2 contain?**

A test report for IEC 60947-2 should typically contain the following information:

- Identification of the device being tested
- Description of the test procedures used
- Results of the tests, including any deviations from the standard
- Conclusion stating whether the device meets the requirements of IEC 60947-2

### **Who should conduct IEC 60947-2 testing?**

IEC 60947-2 testing should be conducted by accredited laboratories with the necessary expertise and equipment. These laboratories can provide independent verification of the safety and performance of low-voltage switchgear and controlgear.

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