

Tillering Stage

This stage begins with the emergence of the first tiller and ends at Panicle Initiation.

This period lasts from about 18 days after sowing to about 45 days after sowing. It is the period of rapid leaf and tiller growth. The roots begin to extract nutrients from the soil. Nutrients are transferred to the leaves by (xylem) tubes. Plant foods are produced by the leaves by (photosynthesis).

Manufactured food is transferred to other parts of the plant via (phloem) tubes. Plants food is utilized by the plant to make the leaves grow bigger.

Side shoots (Tillers) are produced from the base of the plant.

The first tiller that emerges is called the Primary Tiller. Secondary Tillers grow from the Primary Tillers and Tertiary Tillers are produced from Secondary Tillers. Not all tillers are at the same stage of development since they emerge at different times.

Each tiller would become a complete plant, with its own food., leaves. Etc.

There is rapid changing of leaves during this stage. Older or damaged leaves are replaced by new ones. Rapid leaf growth predisposes the plant to attack by pests and diseases.

Management Consideration

The application of Nitrogen Fertilizer (urea) would increase the number of tillers being produced by the plant. It also allows for rapid change of leaves. Replacement of dying and damaged leaves.

The level of water in the field would affect number of tillers and also weediness, fertilizer utilization efficiency, height and sturdiness of the plant.

Control of weeds reduced competition for space, sunlight, nutrient and water. Control weeds before applying fertilizers.


Check field for pest and disease regularly.

Note: Not all leaf damage will result in yield loss (plant compensation).

Notes

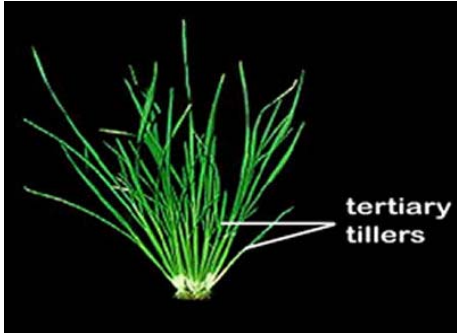


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tertiary tillers

**THINGS YOU SHOULD KNOW
ABOUT TILLERING STAGE IN
RICE PRODUCTION**

RICE – THE GRAIN OF LIFE