



Soil Fertilization and Fertilizer Application in Organic Rice production China

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Organic Rice is an essential requirement for nutrition and security of human beings. Scientific and accurate application of organic fertilizers can promote the healthy growth of organic rice and ensure the stability, quality and yield of organic rice. After more than 20 years of organic production practice, the application system of soil fertilization and fertilizer application techniques for organic rice production in China has taken shape. But there are some problems. For example, some organic rice farmers do not know what to do with organic fertilization, which has a direct impact on the improvement of the yield and quality of organic rice.





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II. Integrated Application Mode of Scientific Precision Fertilization Technology



I、Characteristics of Soil Fertilization and Fertilizer Application in Organic Paddy Fields

1.1 Internal recycling of home-made farm manure with traditional farming techniques



1.1 Accumulation and Utilization of Farm manure



1.2 Accumulation and Utilization of Rice Straw



I 、 Characteristics of Soil Fertilization and Fertilizer Application in Organic Paddy Field

1. 2 Using the traditional farming rotation and "planting and raising combination" to enhance the Soil Fertilization in the Paddy Field

Primary methods:

- ① planting green manure
- ② Add organic fertilize
- ③ Rotating wet and dry crops
- ④ Combination of planting and raising
- ⑤ Fallow and rotation



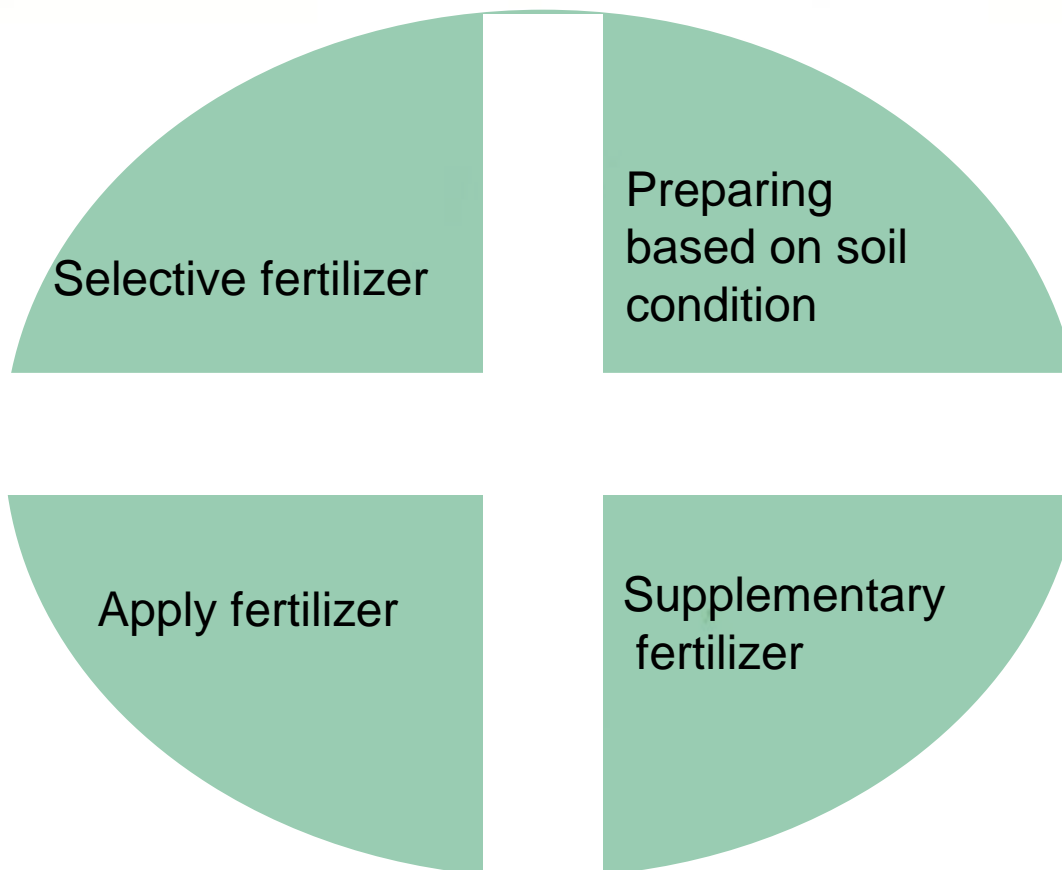


I、Characteristics of Soil Fertilization and Fertilizer Application in Organic Paddy Field

1.3 Application of Commodity Fertilizer as topdressing Fertilizer



II 、 Integrated Application Mode of Scientific Precision fertilization Technology





II、Integrated Application Mode of Scientific Precision fertilization Technology

2.1 Selecting Fertilizer by Standards



TCS 65.020.01
B 05

NY

中华人民共和国农业行业标准

NY/T 2410-2013

有机水稻生产质量控制技术规范

Technical specification for quality control of organic rice production

2013-09-10 发布 _____ 2014-01-01 实施

中华人民共和国农业部 发布



II 、 Integrated Application Mode of Scientific Precision fertilization Technology

2.2 Based on soil conditions

- ① Preparing fertilizer based on soil fertility and target yield
- ② Methods and amount of fertilizer application vary, according nutrient release properties, the ability to maintain fertilizer and the degree of nutrient loss in different soil textures.



Distribution map of soil fertility and fertilizer benefit monitoring base in China



II 、 Integrated Application Mode of Scientific Precision fertilization Technology

2.3 Application of farmyard base fertilizer and supplementary fertilizer

First ,fully applying base farmyard manure



And then, supplementary topdressing



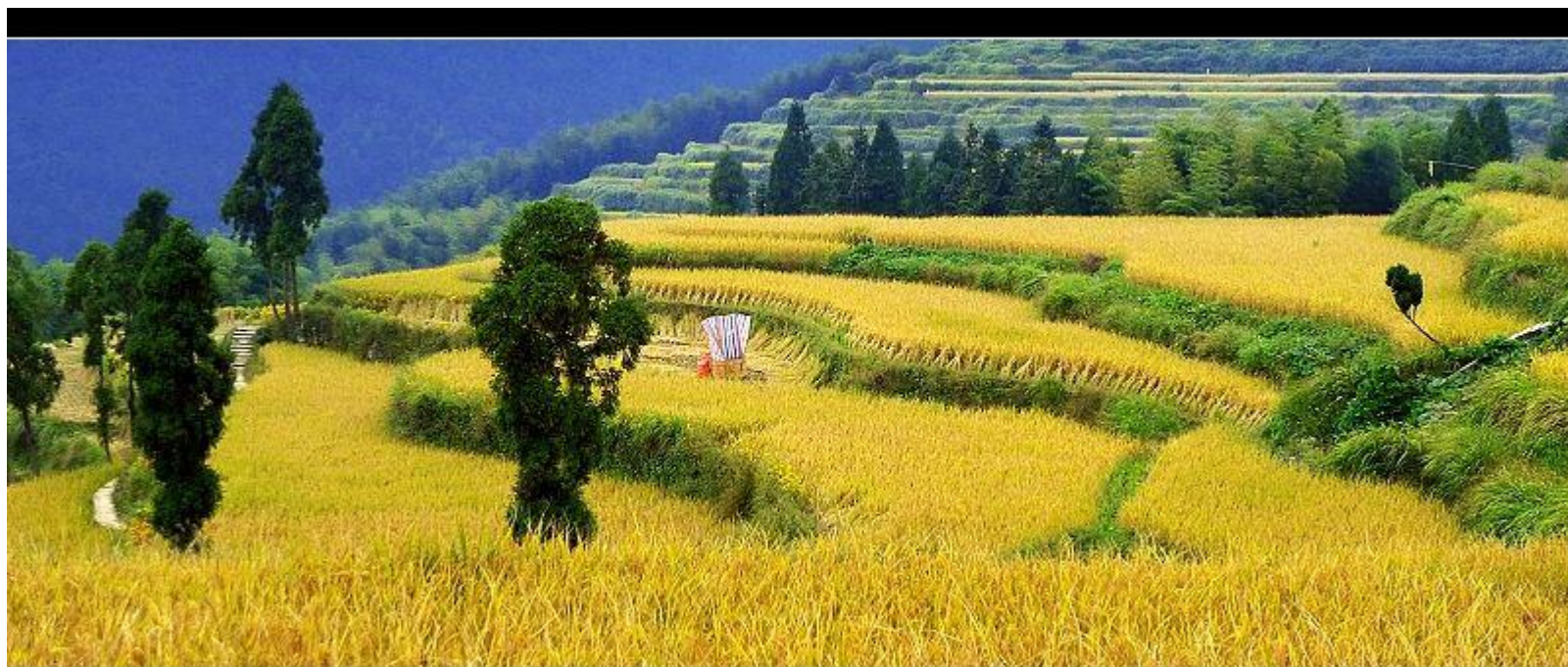


II 、 Integrated Application Mode of Scientific Precision fertilization Technology

2. 4 What nutrients are lacking, what nutrients to supplement?

- ① Soil conditioner substances
- ② Microbial fertilizer
- ③ Cakes
- ④ Commercial organic fertilizer
- ⑤ Applicable mineral fertilizer
- ⑥ Plant source foliar fertilizer





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