

Action Plan for Replacing Chemical Fertilizers by Organic Fertilizers in Fruit, Vegetables and Tea Plantations 开展果菜茶有机肥替代化肥行动方案

In February 2017, Ministry of Agriculture (MOA) published the “Action Plan for Replacing Chemical Fertilizers by Organic Fertilizers in Fruit, Vegetables and Tea Plantations”.

The Action objectives

In 2017, 100 major fruits, vegetables and tea planting counties will be selected to demonstrate the replacement of chemical fertilizers by organic fertilizers, assemble a bunch of sustainable production and operation models which can be replicated and disseminated. In the next 3-5 years, strive to establish the preliminary administration and policy system for the replacement of chemical fertilizer by organic fertilizers, assemble and extension of production technology models, establish a long-term effective mechanism for the organic fertilizer replacement in fruits, vegetables and tea plantations.

The specific targets include:

1. Significantly reduce chemical fertilizer application

By 2020, reduce chemical fertilizer application by 20% in major fruits, vegetables and tea production regions, by 50% in the key production regions and brand production bases.

2. Significantly improve soil quality

By 2020, soil OM content in the major fruits production regions reaches 1.2% or increase by 0.3 percentage point; soil OM content in major tea planting regions reaches 1.2% or increase by 0.2 percentage point; soil OM in vegetable field maintains at 2% and over.

Key tasks

1. Promoting the integration of crops planting and livestock farming

Take account of land and environment carrying capacity, determinant the appropriate scale of fruit/vegetable/tea planting and livestock farming, guiding farmers utilising livestock waste to make compost and organic fertilizers, realising waste recycle and reuse locally.

2. Improving the techniques of organic fertilizer application and the associated facilities
3. Enhancing the standardised production and brand development
4. Enhancing the support to the major producers and improving the supplying of green products

Technology models

Apple

- “organic fertilizer + formulated fertilizers” model

- “fruit – biogas – livestock” model
- “organic fertilizers + fertigation” model
- “natural grass + green manure” model

Orange

- “organic fertilizer + formulated fertilizers” model
- “fruit – biogas – livestock” model
- “organic fertilizers + fertigation” model
- “natural grass + green manure” model

Protected (greenhouse) vegetables

- “organic fertilizer + formulated fertilizers” model
- “vegetable – biogas – livestock” model
- “organic fertilizers + fertigation” model
- “crop straw reactor” model – promoting crop straw bioreactor which can increase CO₂ emission, enhance photosynthesis, increase soil temperature, increase soil OM, and inhibiting secondary salinization.

Tea

- “organic fertilizer + formulated fertilizers” model
- “Tea – biogas – livestock” model
- “organic fertilizers + fertigation” model
- “organic fertilizers + machine deep placement” model

(The full text (in Chinese) of the “Action Plan for Replacing Chemical Fertilizers by Organic Fertilizers in Fruit, Vegetables and Tea Plantations” is available at http://www.moa.gov.cn/zwl/m/tzgg/tz/201702/t20170210_5472878.htm)

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