

# Cotton byproducts utilization in China and Future Technical Collaboration with Africa

Dr. GONG Xifeng  
Counselor of Chinese Mission to WTO

2019.06.07

# Outline

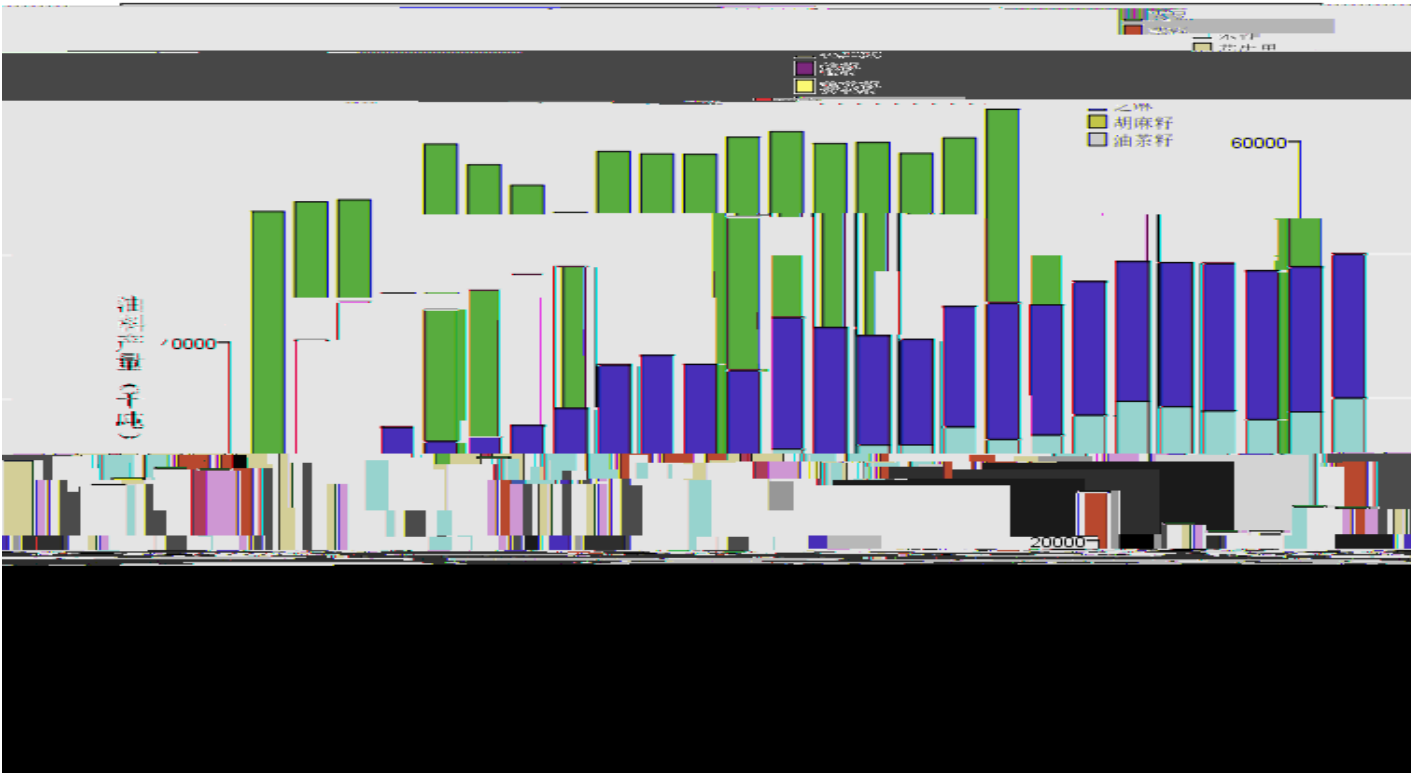






## 2. Utilization of Cotton by-products in China.

According to the National Grain & Oils Information Center: In 2017, the total output of eight major oilseeds such as rapeseed, peanut,

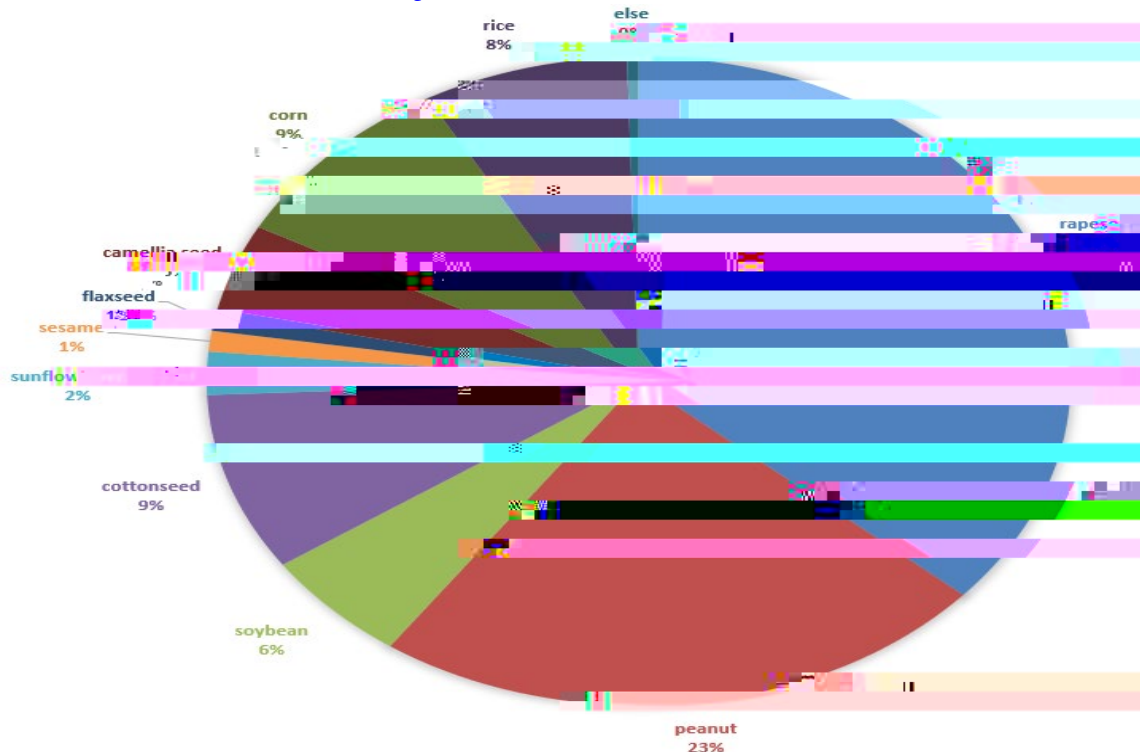


Output of oil crop from 1993 to 2017 in China.



## 2. Utilization of Cotton by-products in China: Cottonseed oil

The cottonseed vegetable oil production of China was 1.04 million tons in 2017, accounting for 8.9% of the total output of edible oil by oil crops grown domestically.



Proportion of various vegetable oil from the oil crop produced domestically in China of 2017.





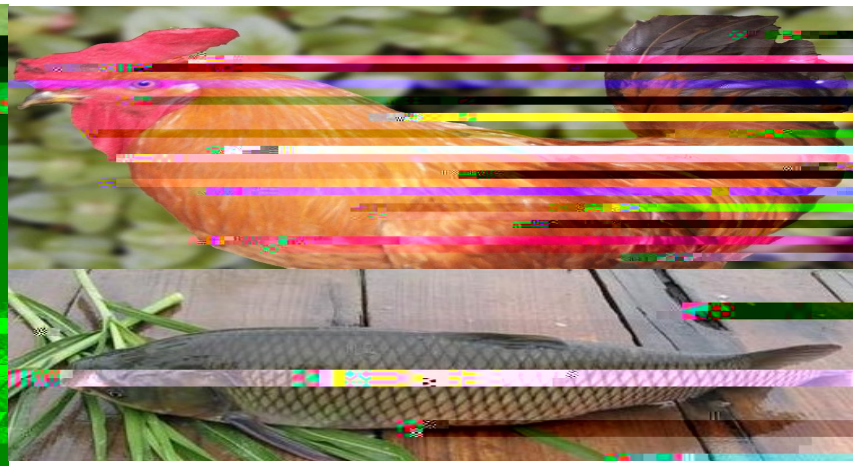
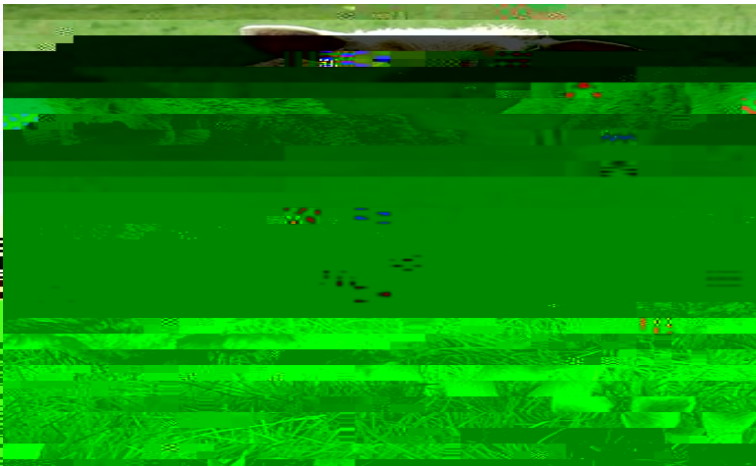


## 2. Utilization of Cotton by-products in China: Cottonseed cake and meal



Cottonseed cake and meal are mainly used as high protein feed ingredients for ruminant of cattle and sheep and aquaculture.

Cottonseed cake and meal in different form





**The cotton linters can be used to produce acetate, cellulose ether, and nitrocellulose, widely used in textiye,**



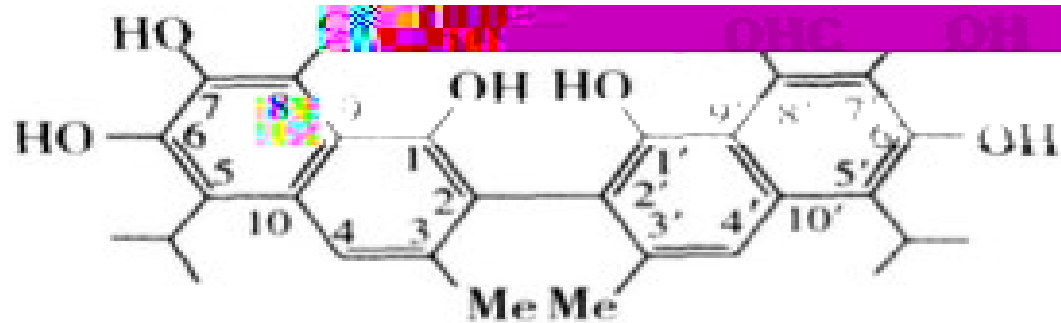
**The cottonseed hull contains 5-8% crude protein, which is the main raw material for the cultivation of**



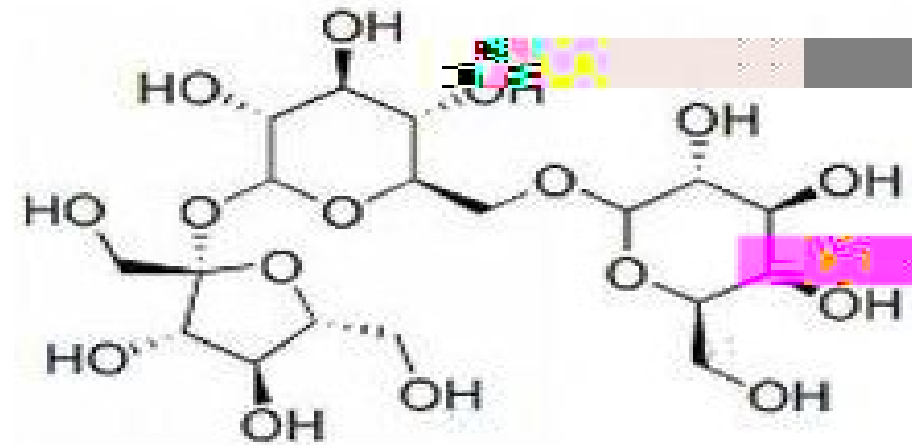


## 2. Utilization of Cotton by-products in China: Chemicals

Through application of new technology, cottonseed can be used to produce food-grade protein, and also gossypol, raffinose, tannin, phytic acid etc., which are used in the field of pharmacy and food.



Gossypol

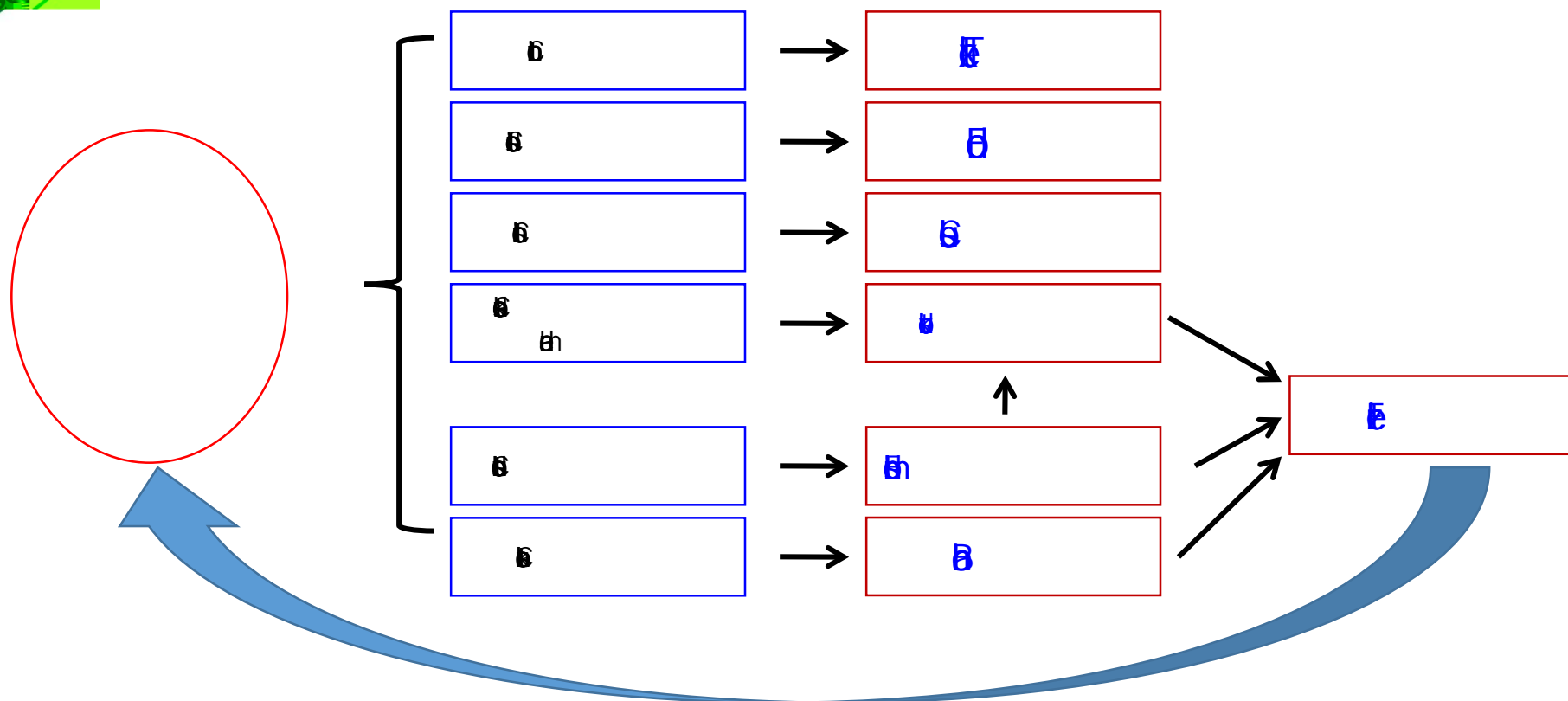


Raffinose





# Sustainable Circulative Agriculture in China

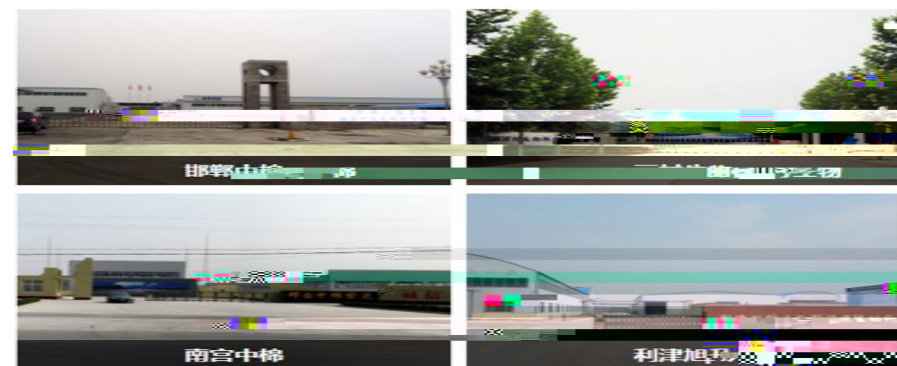
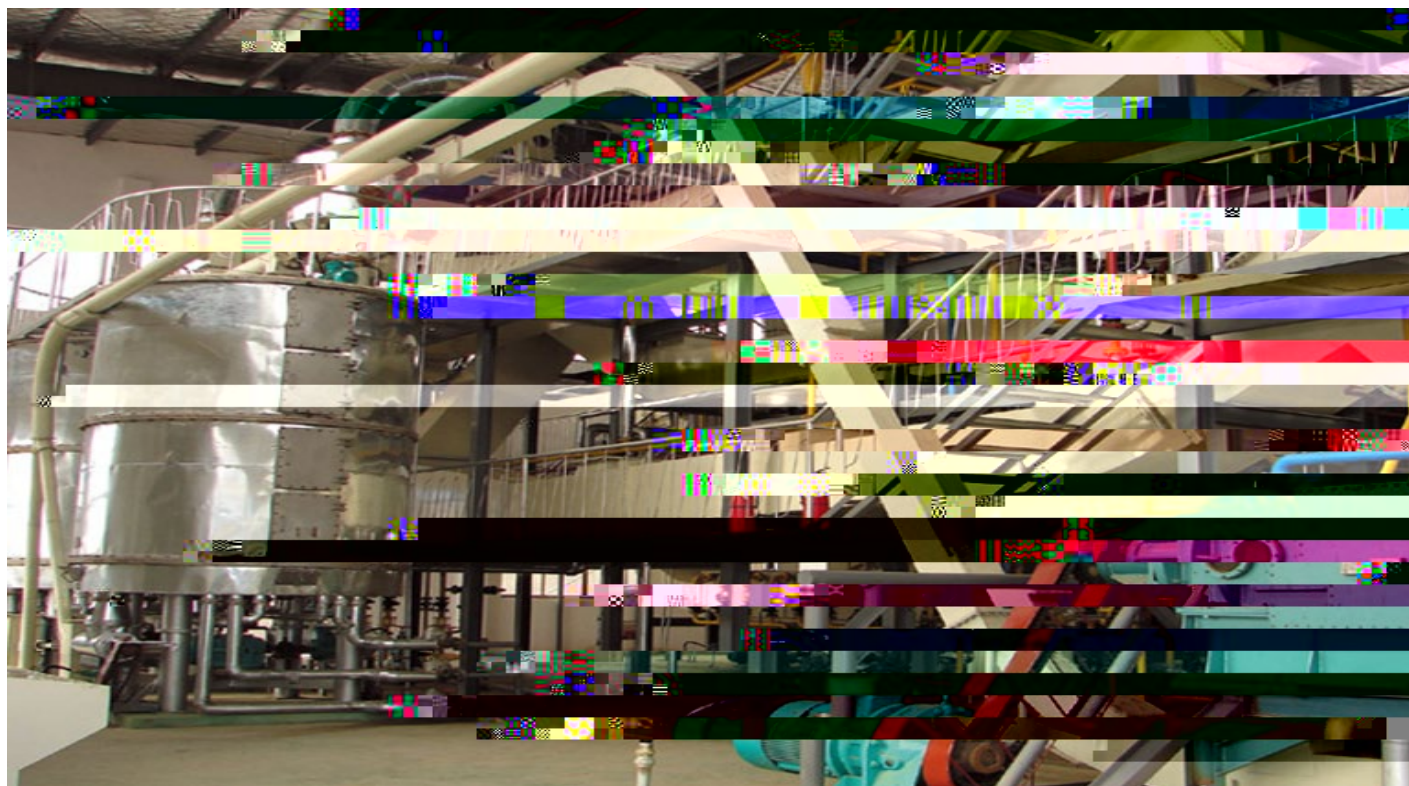


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# Cottonseed processing technologies in China

There are two mainstream cottonseed processing technologies in China. One is extrusion pretreatment and direct-extraction to obtain ordinary cottonseed meal, and the other is liquid-liquid-solid extraction to produce cottonseed protein with very low levels of gossypol.







## 3. Future Cooperation with Africa in Cotton

1. Consolidate cotton byproducts research cooperation and training to improve the capacity in Africa particularly C4 through transfer of technology >
2. Cotton seed and relevant byproducts processing are well developed and relevant equipment and facilities are available , we encourage Chinese firms to invest in Africa to bring their technology to develop local economy as we already in the past..
3. Promote multi-stakeholder South-South Cooperation projects on key cotton byproducts.

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Thank you

