

Green oil field

Sweet sorghum-Bioethanol

Biomass Conversion Committee of
CAREI

“ Chuntian”series

Sweet sorghum cross breed

3 strain breeding

(Sterility / Holding / Recovery)

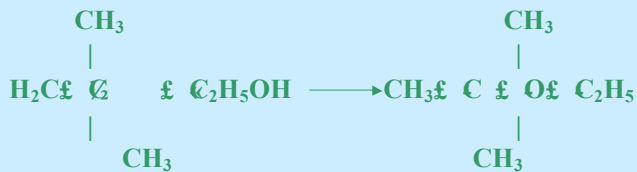
Technics Flow chart



ETBE & MTBE

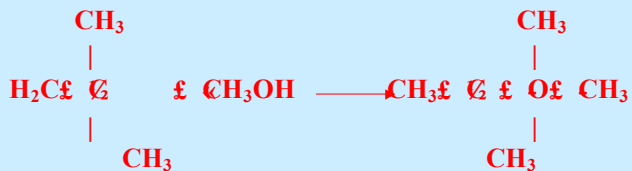
£ Ethyl tertiary butyl ether & Methyl tertiary butyl ether £ ©

ETBE



£ Butylenes 51£ ¥ © Ethanol 49£ ¥ © £ ETBE100£ ¥ ©

MTBE



£ Butylene 65£ ¥ © Methanol 35£ ¥ © MTBE100£ ¥ ©

(ETBE Octane rating – 116-120)



**The way
Sweet -
Sorghum
is growing
in
Huhehaote**

**Sweet sorghum
growing in Huhehaote**





- **Sweet sorghum**
- **Planted by the farmer**
-

Harvest season



**“ Chuntian2#”
Character**

- **Sweet sorghum**
- **Seeds**

cm

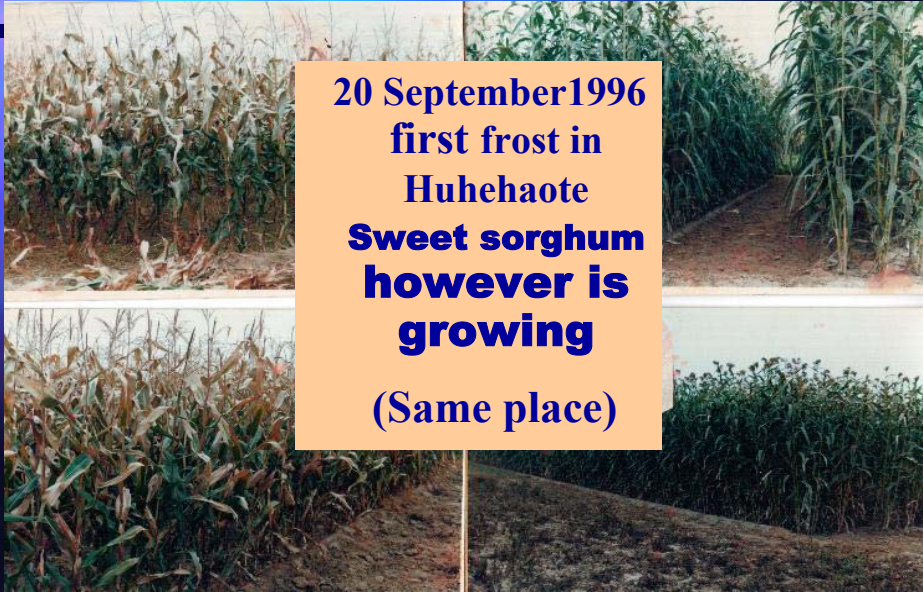


**Fight
the drought**

**Sameness ravages
of the drought
Sweet sorghum
however is growing**



Fight cold



20 September 1996
first frost in
Huhehaote
**Sweet sorghum
however is
growing**
(Same place)



- **Sweet**
- **Sorghum**
- **Harvest**
- **1999 in**
- **Huhehaohe**
-

The open air for Stem deposited



Extract stem juice Old equipment in Huhehaote



Fermentation equipment

Old installation in Huhehaote



Distillation equipment

old installation in Huhehaote



– **Stem
dregs
feedstuff**

Feeding for pigs



Feeding for cattle



Northwest of China



Farmers of Northwest in China



Sweet sorghum can also grow in Northwestern China



Sweet sorghum plantation in shandong Anqiu-2001



Sweet sorghum plantation in Florence(Chinese seeds)



Huhehaote Refinery will process ETBE with EUBIA

