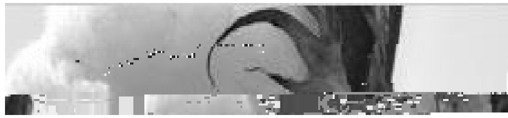
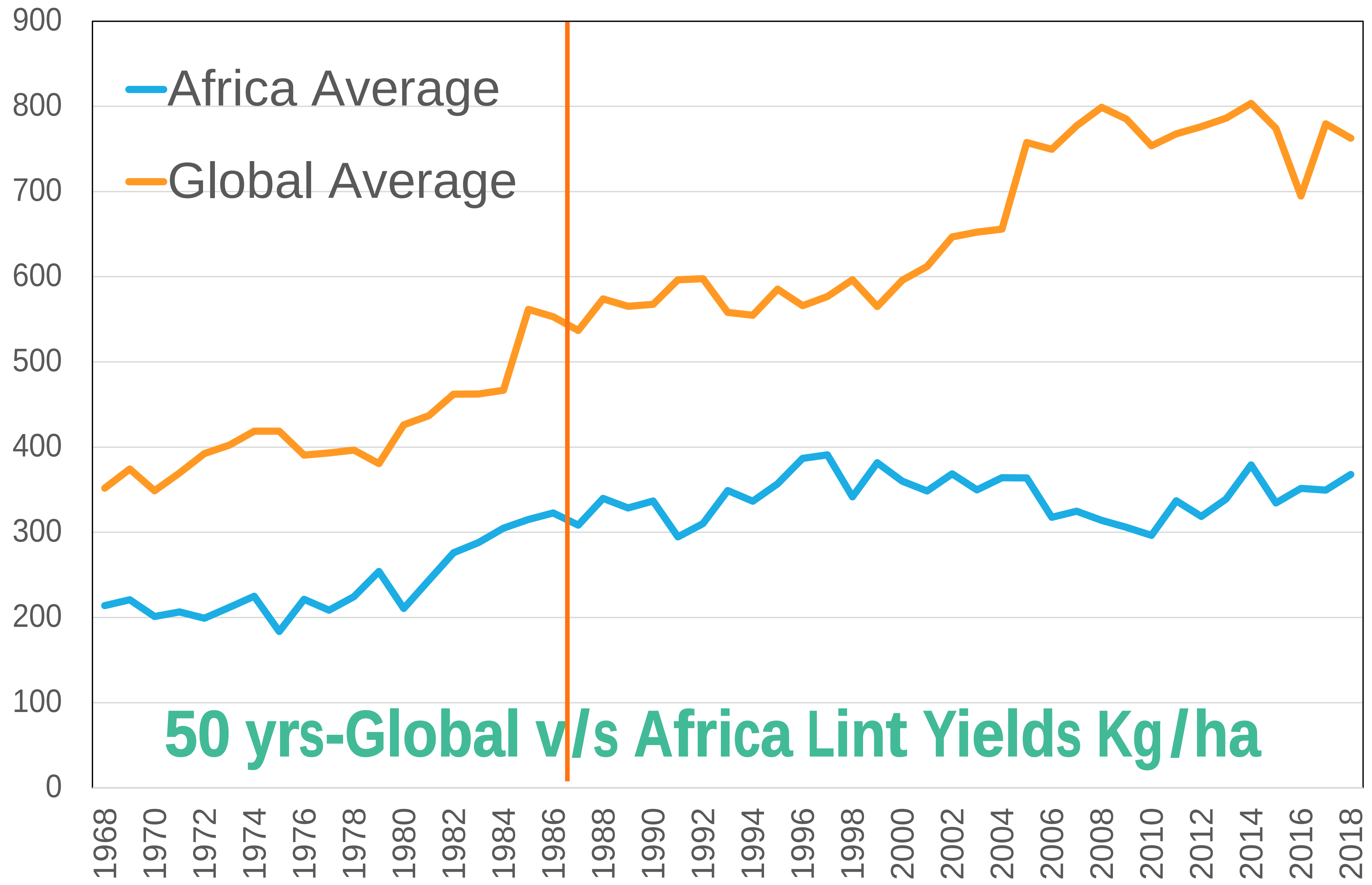


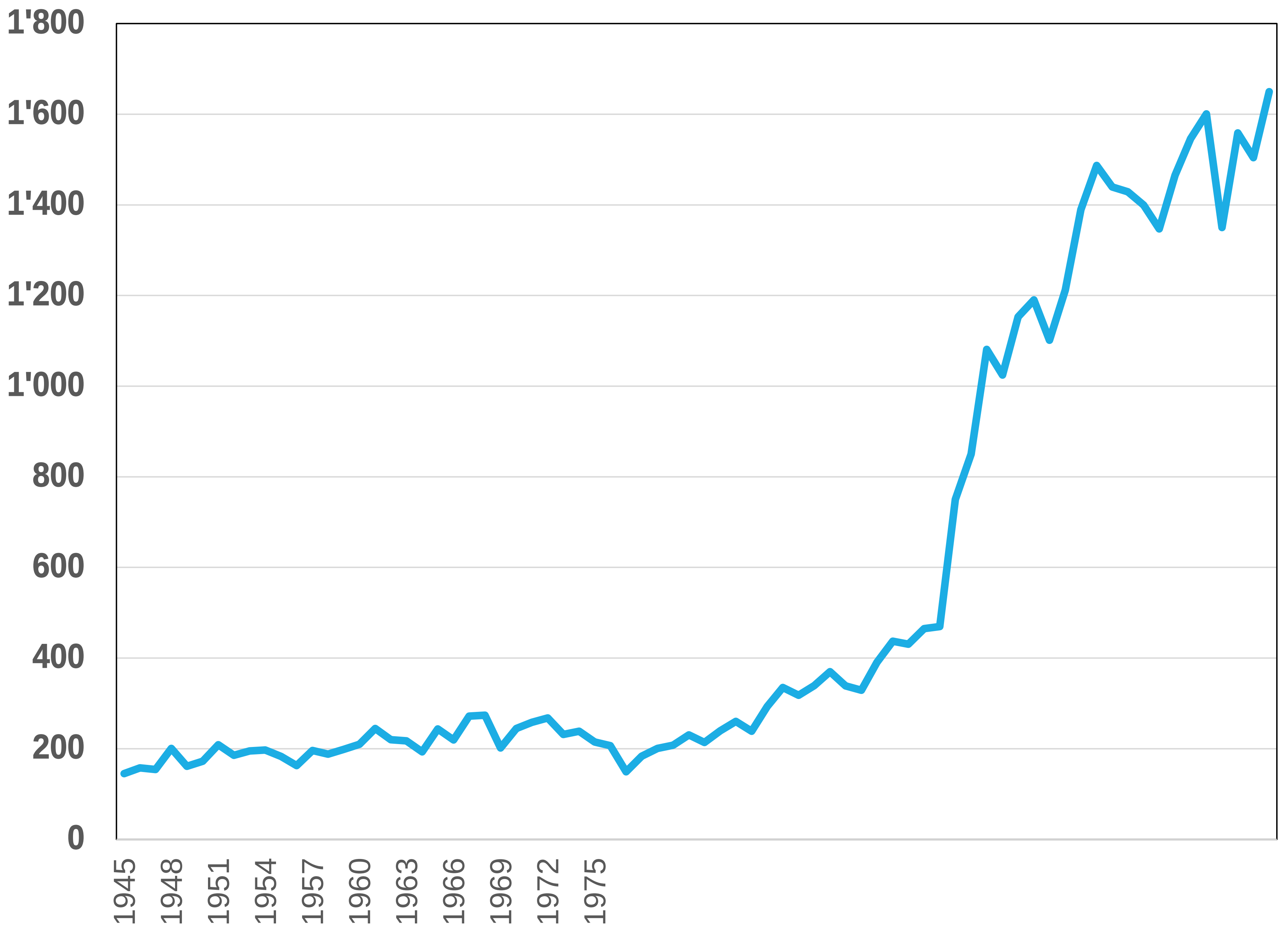
Keshav Kranthi

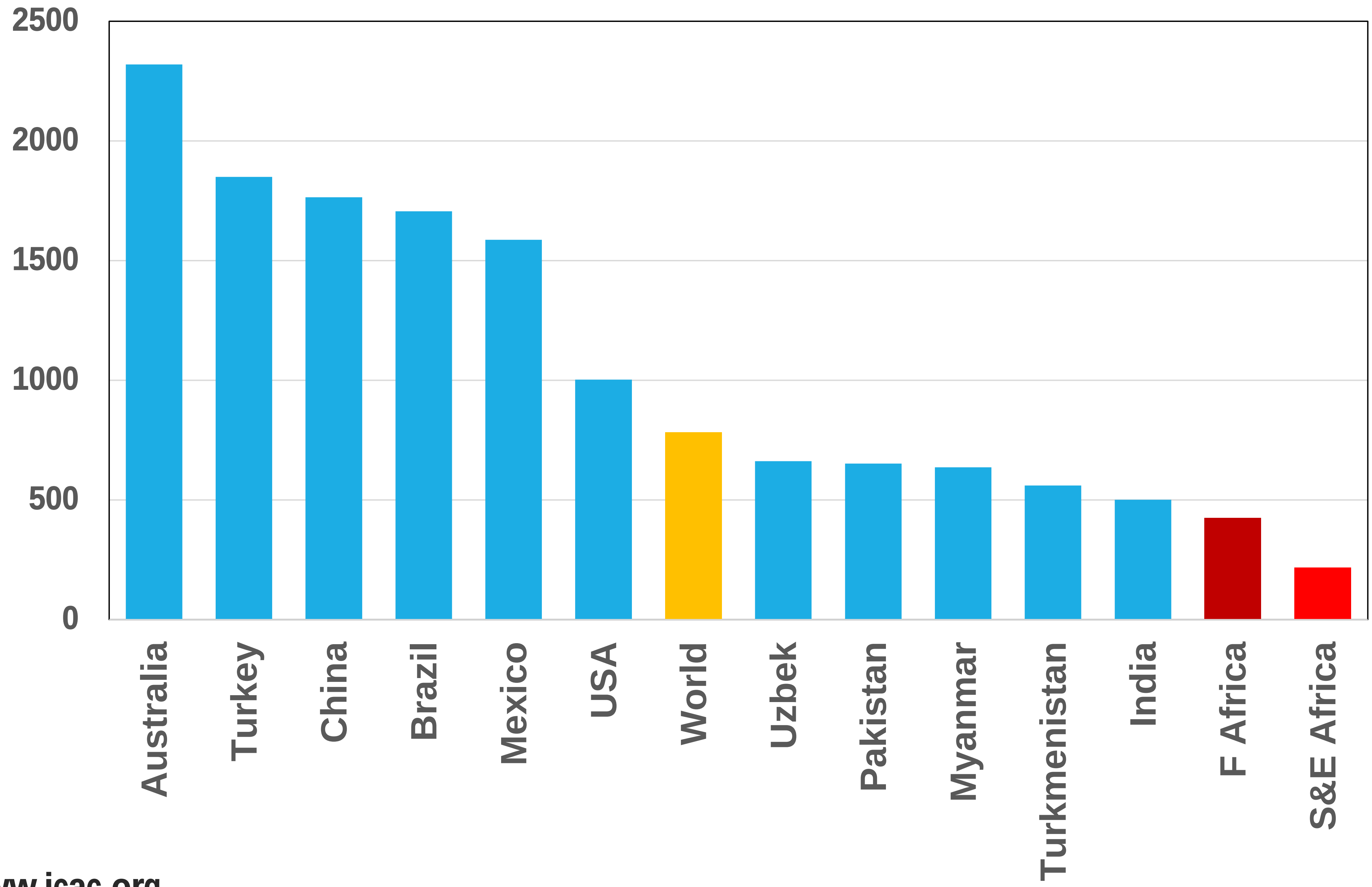
Head, Technical Information Section
International Cotton Advisory Committee

International Cotton
Advisory Committee



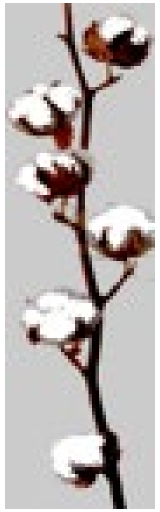
900
800
700
600
500
400
300
200
100
0
Africa Average
Global Average
50 yrs-Global v/s Africa Lint Yields Kg/ha
1968
1970
1972
1974
1976
1978
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018


1'800
1'600
1'400
1'200
1'000
800
600
400
200
0
1945
1948
1951
1954
1957
1960
1963
1966
1969
1972
1975



2500
2000
1500
1000
500
0
Australia
Turkey
China
Brazil
Mexico
USA
World
Uzbek
Pakistan
Myanmar
Turkmenistan
India
F Africa
S&E Africa

www.icac.org



High efficiency & Less biomass

High Yields & good fibre quality

150 Days

less efficient & Wasteful biomass

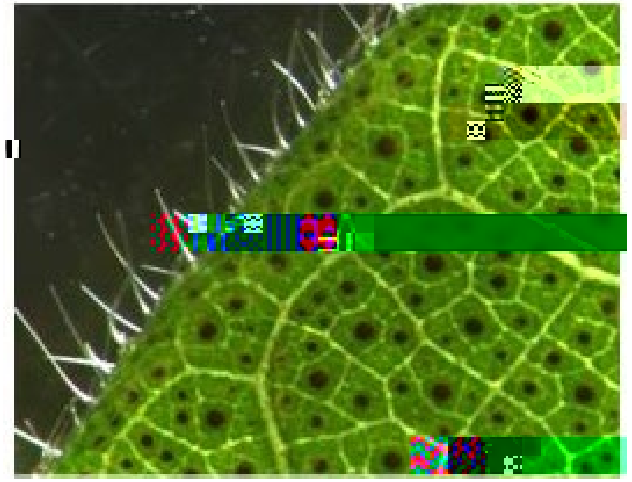
Low Yields & mixed fibre quality

Thinner stalks + Good see

Dr Kirthi Rathore, Texas A&M 2006

99%

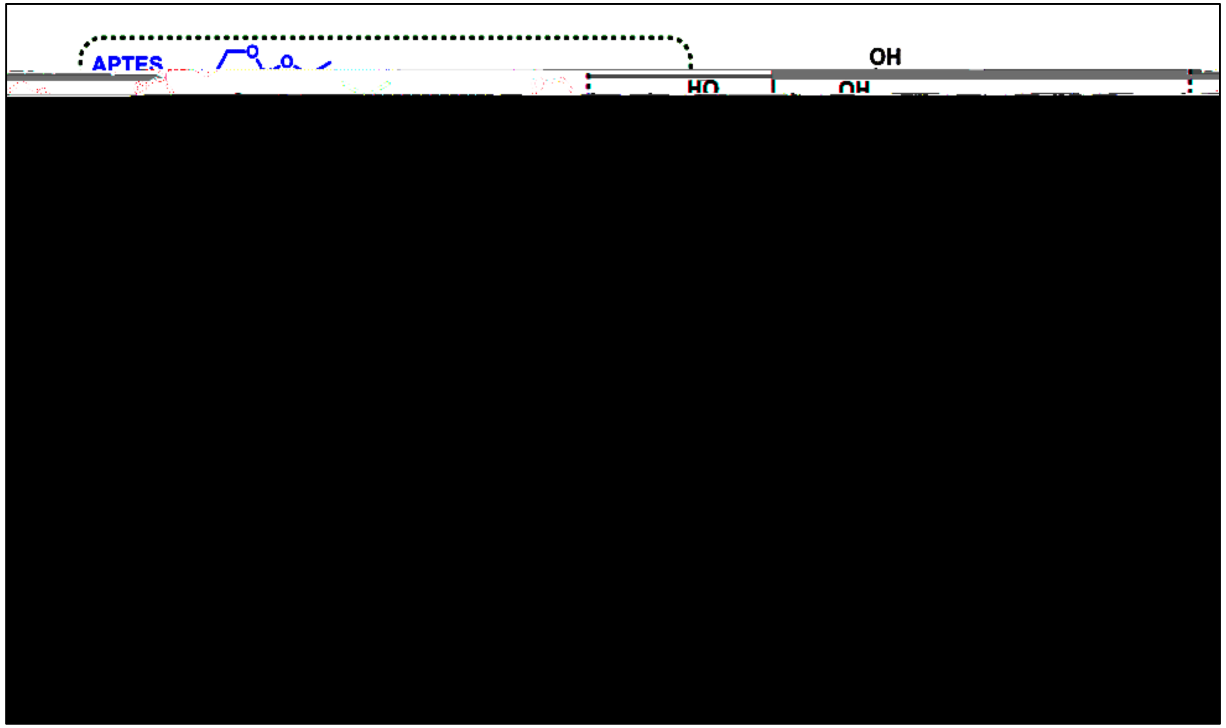
GOSSYPOL REDUCTION



The cottonseed from these plants meet World Health Organization and FDA standards

-Thomas Wedegaertnera & Keerti Rathore, 2015

Keke Zhi, et al., 2018, Material, 11,777



30g Silica

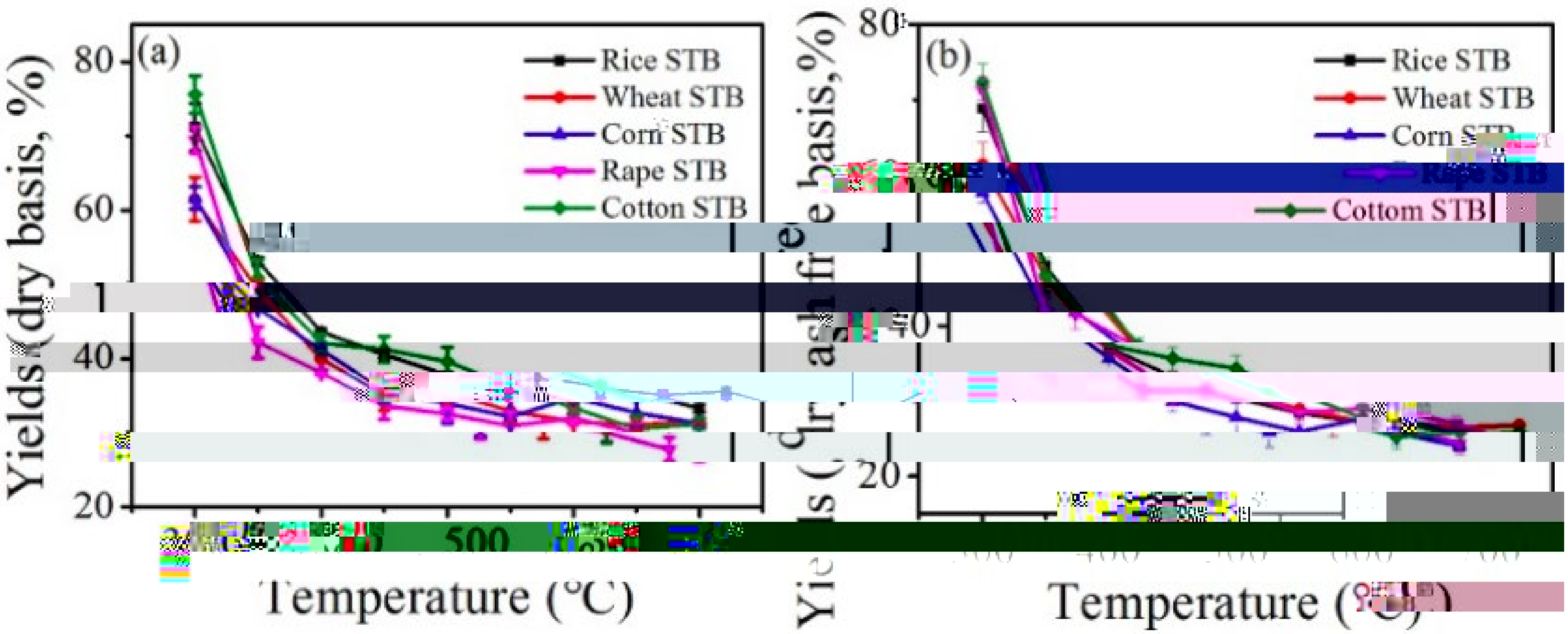
Removes 6g Gossypol in 100Kg Oil in 10mi

US$ 1
KILN

preparation using continuous biochar production unit at
Barapani: wood chips collected in drums (A); continuous biochar production unit (B);
feeding the biochar unit with wood chips (C); Firing the smoke with
initial smoke from biochar unit (F); and wood chips burning inside main reactor

- SOIL REMEDIATION
- ORGANIC CARBON
- SOIL TEXTURE

Venkatesh, G., et al., 2013. , 8(1), pp.48- 57.



Liu et al. (2018). “Temperature for biochar,” BioResources 13(2), 3429-3446.