



# **Collaborative Study of Low Nicotine Tobacco Agronomic Production Practices (LNTP) – Task Force Report**

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**CORESTA Agro-Phyto Virtual Conference**

**October 2021**



# LNTP Task Force

## ❖ Objectives:

1. To determine the impact variety selection has upon nicotine levels.
2. To determine the impact of modified cultural practices have upon nicotine levels.

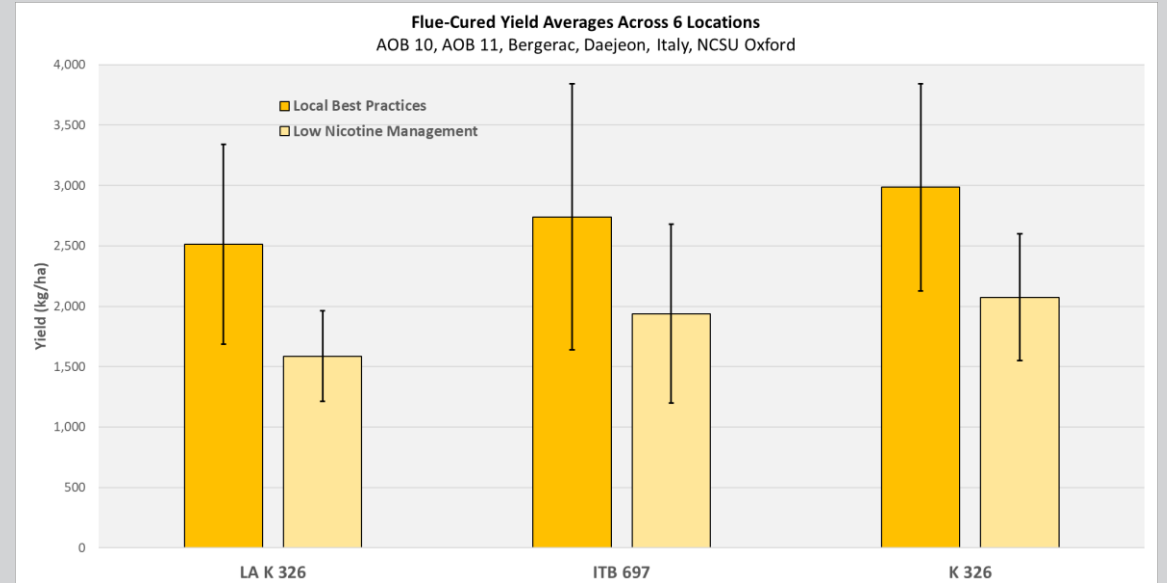
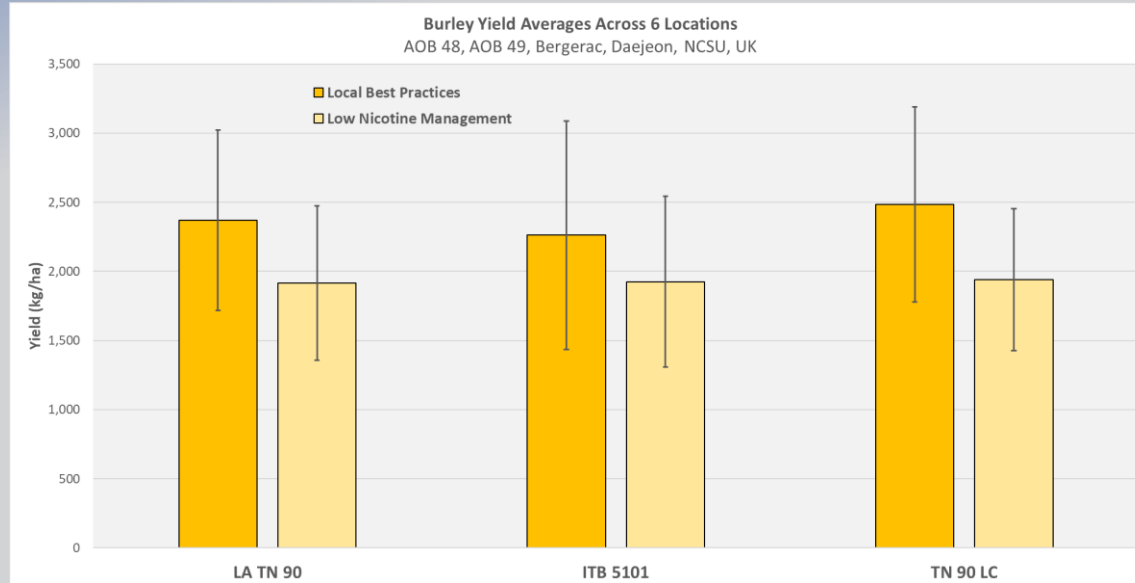


## ❖ Achievements in the last 12 months

Activity	Leader	Time
<ul style="list-style-type: none"><li>The 1<sup>st</sup> round of field trials (2020/2021) were conducted in 8 different tobacco production regions</li></ul>	TF Participants	June 2021
<ul style="list-style-type: none"><li>Chemistry analysis for nicotine were completed for 4 burley and 5 flue-cured field trials</li></ul>	Rowe, Lion & Lusso	Sept 2021
<ul style="list-style-type: none"><li>Yield data was received from 6 burley and 6 flue-cured field trials</li></ul>	Lion & Lusso	Sept 2021
<ul style="list-style-type: none"><li>Grade Index data was received from 4 burley and 4 flue-cured field trials</li></ul>	Lion & Lusso	Sept 2021
<ul style="list-style-type: none"><li>Seed for the 2<sup>nd</sup> round of field trials were sent to 12 TF participants</li></ul>	Adams, Lewis & Malpica	June 2021



# LNTP TF Preliminary Yield Data 1st Round of Field Trials

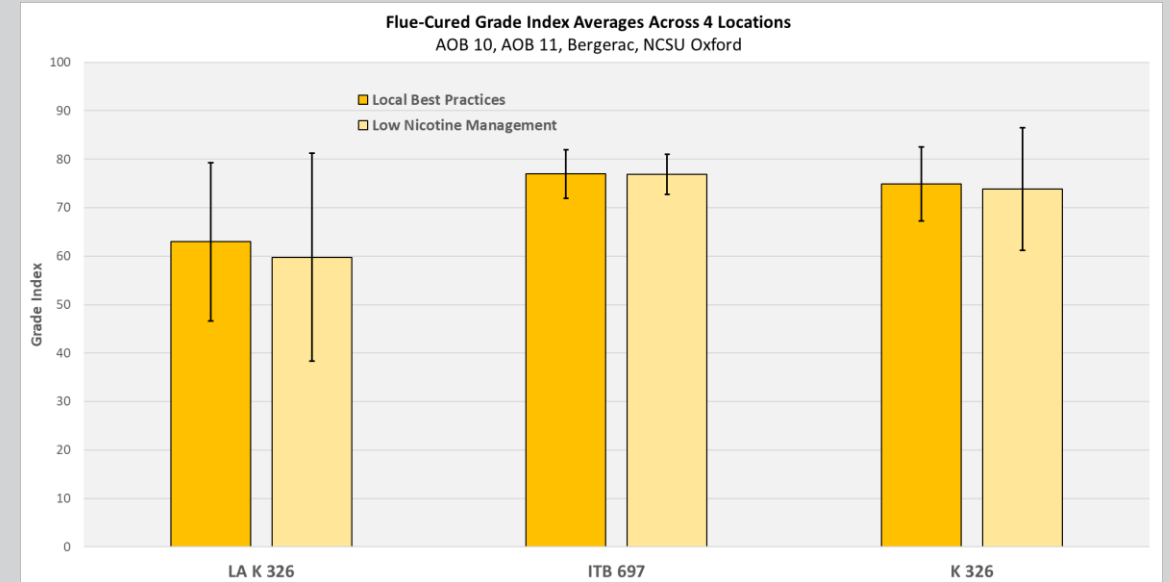
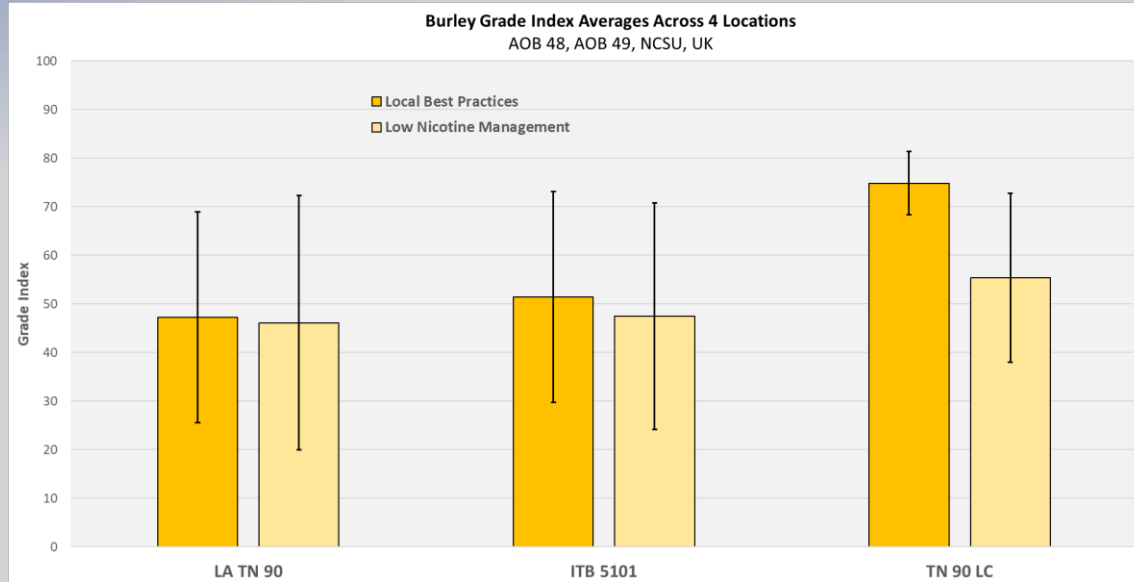


Based on Preliminary Data

The lowest leaf yield in the burley test was observed in LA TN 90 and in the flue-cured test in LA K 326 grown under low nicotine management



# LNTP TF Preliminary Grade Index Data 1st Round of Field Trials

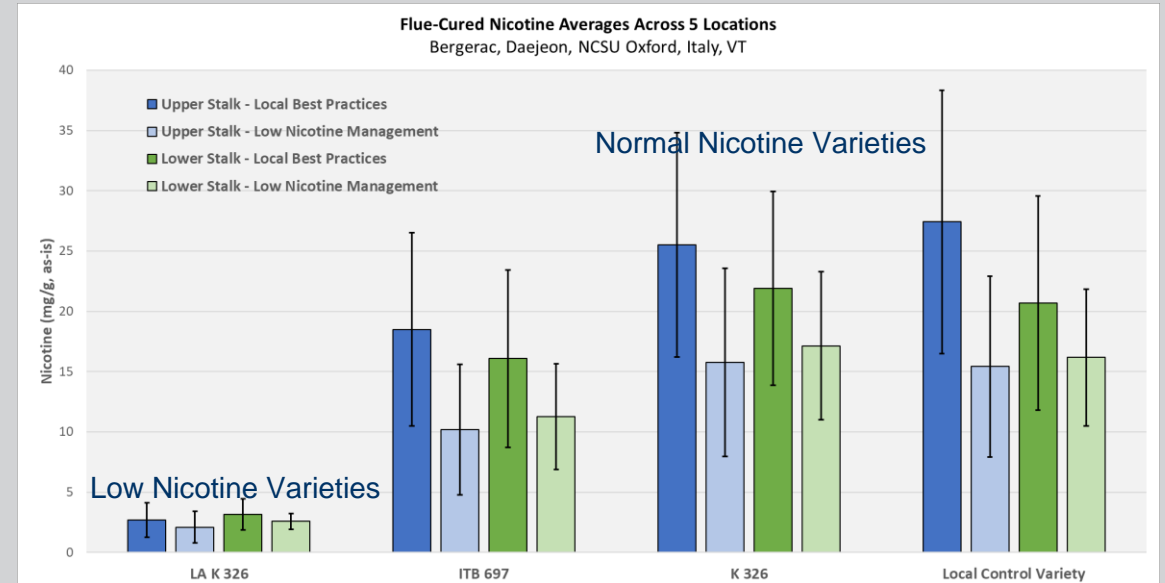
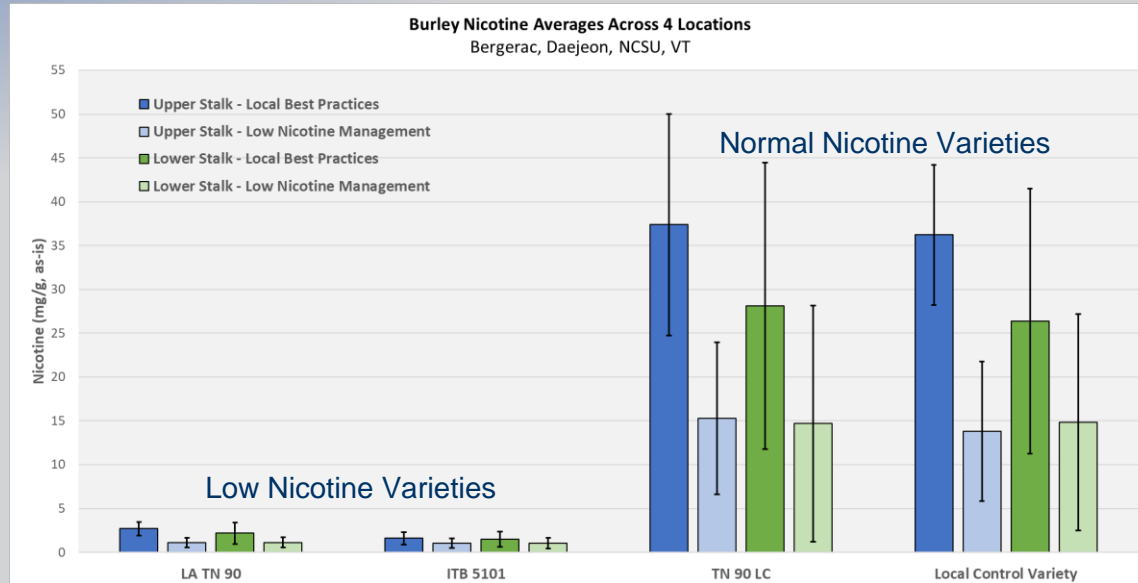


Based on Preliminary Data

The lowest Grade Index in the burley test was observed in LA TN 90 and in the flue-cured test in LA K 326 grown under low nicotine management



# LNTP TF Preliminary Nicotine Data 1st Round of Field Trials



Based on Preliminary Data

Burley Lowest Nicotine level – 1.06 mg/g, as-is for ITB 5101 under low nicotine management

Flue-Cured Lowest Nicotine level – 2.09 mg/g, as-is for LA K326 under low nicotine management



# LNTP Task Force

## ❖ On-Going

Project No.	Activity	Leader	Time
226	1 <sup>st</sup> Round of Chemistry and data analysis	Rowe & Lion	Dec. 2021
	1 <sup>st</sup> Round of field data analysis	Lion	Dec. 2021
	2 <sup>nd</sup> Round of field trials	TF Participants	June 2022



# LNTP Task Force

## ❖ Further Projects

Project No.	Activity	Leader	Time
226-1	CTR CS of Low Nicotine Tobacco Agronomic Practices (LNTP)	Lusso & Malpica	12/31/2023
226-2	CXP on Low Nicotine Tobacco Agronomic Practices (LNTP)	Lusso & Malpica	12/31/2023





# LNTP Task Force

## ❖ Main Challenges

- ✓ Seed shipment has improved but still a challenge
- ✓ Sample shipment for analysis has also presented some challenges
- ✓ Progress is slow due to the nature of the work
- ✓ Data standardization for comparison across locations could be improved
- ✓ Pandemic has impacted communication and trials in some locations

## ❖ Meetings

- ✓ Last: Victoria Falls - October 2019
- ✓ Next: TWC/Virtual meeting in January 2022

# Thank You