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Government of India



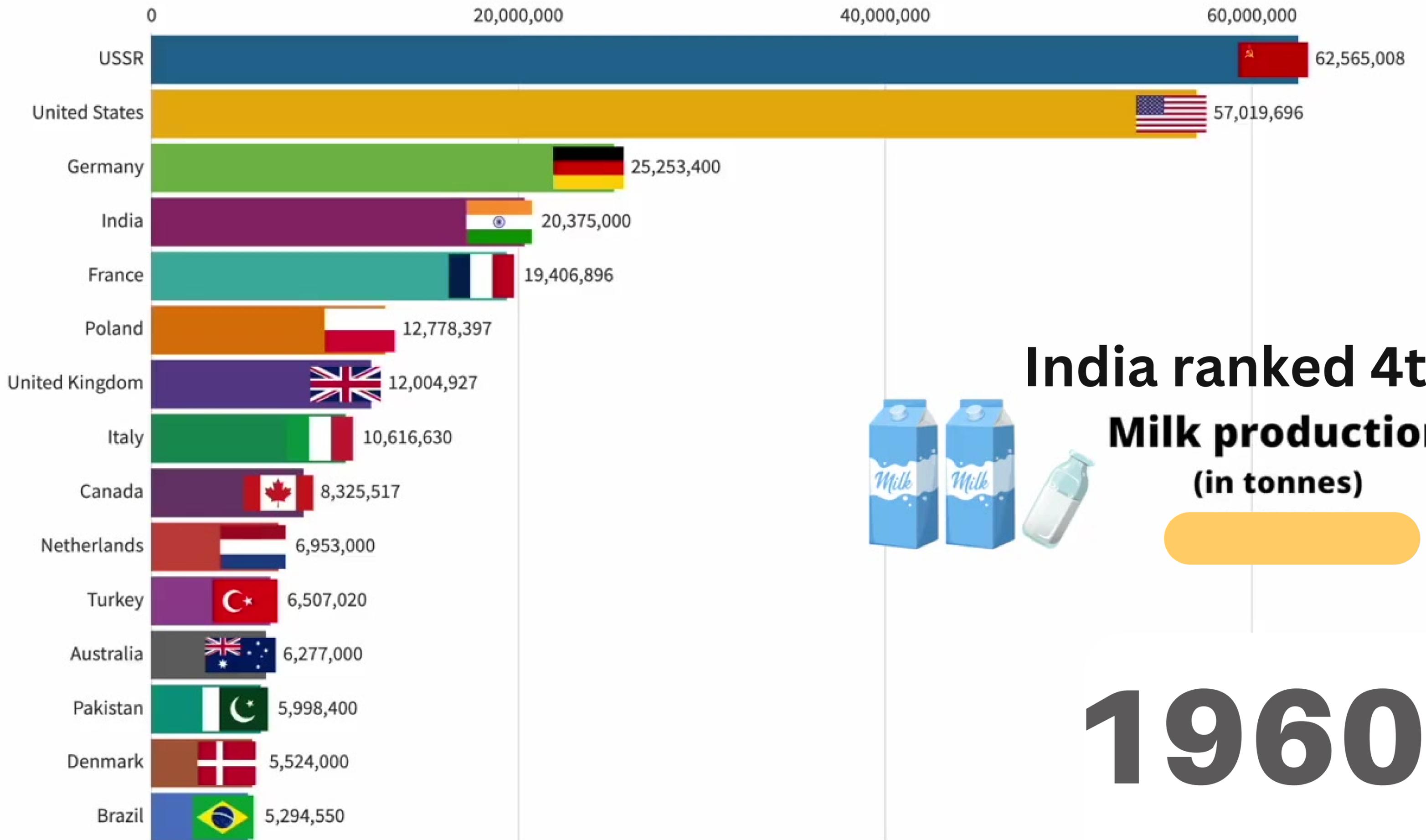
Enhancing Adaptive Capacity of Livestock Farmers & Youth Entrepreneurs in Changing Climate Scenario





Milk production increased from around 20 million tons
in 1960 to >134 million tons in 2019

**MAKING INDIA THE HIGHEST MILK PRODUCING
COUNTRY IN THE WORLD**

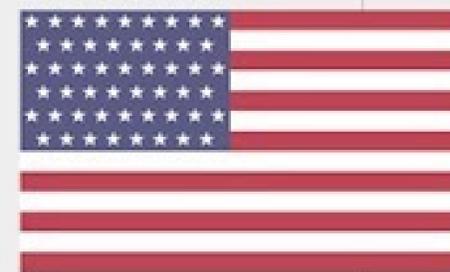




Became leading Milk Producing Country in 2019



1st



2nd



3rd



**Global Population is expected to grow over 8 billion by 2030
and Food demand is expected to grow even faster
(IPCC, 2014)**

***India's National communication
to UNFCCC reported negative
impact on Animal productivity
due to projected warming
conditions***



***Sustaining Milk productivity in changing climate scenario
is a challenge.....***

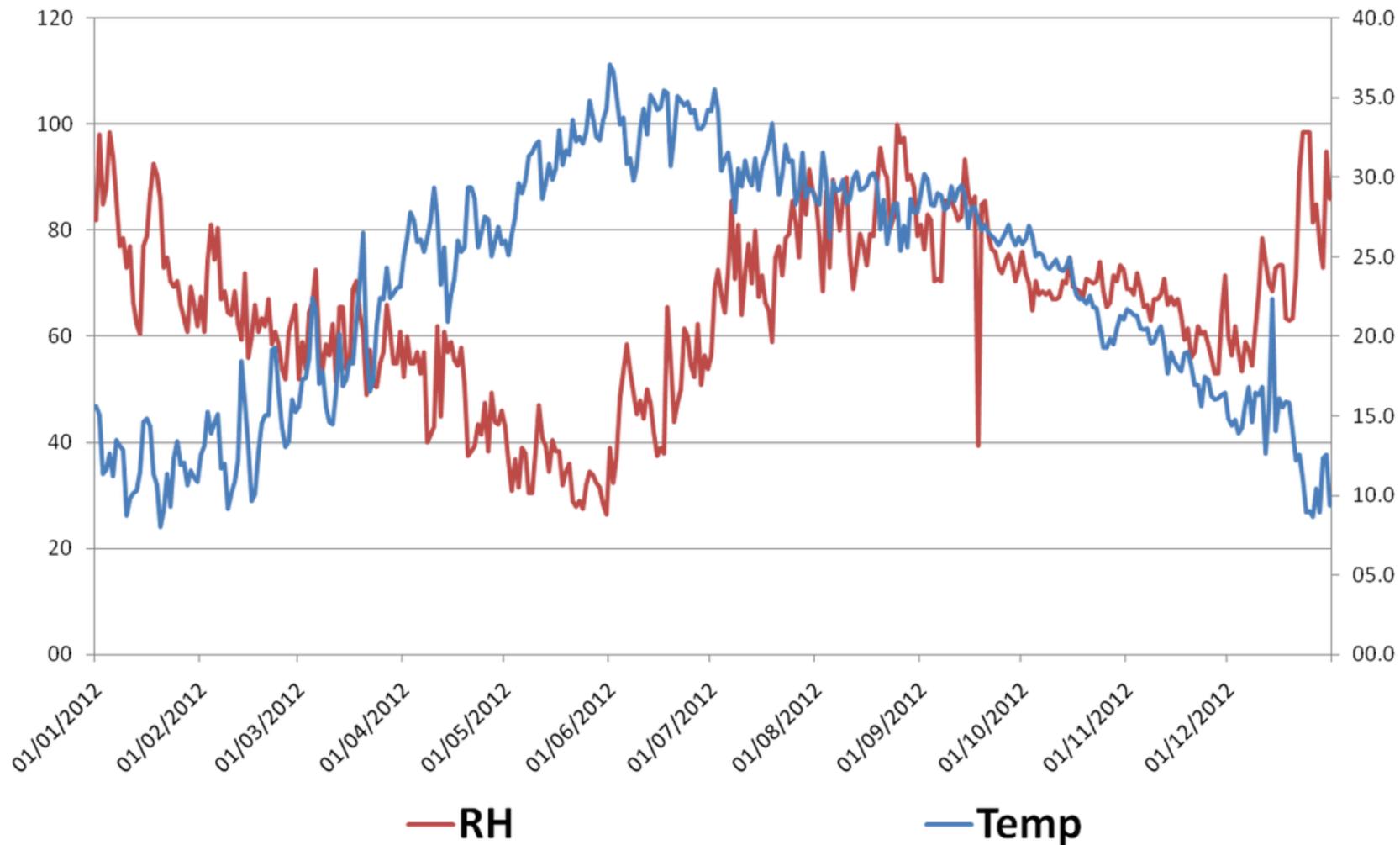


**Punjab has been
among front
runners in White
Revolution**



1st in per capita availability of Milk in the Country
6th Largest state in milk production

Milk production severely declines with THI exceeding 72 (normally occurs during April-September)



Temperature Humidity Index (THI)





Designed & demonstrated Climate Resilient Cattle sheds for adption by marginal livestock Farmers

- Insulated Roof
- Well ventilated
- Tick free Environment
- Free movement for animals

**Conventional heat trapping cattle sheds replaced
with climate resilient sheds**





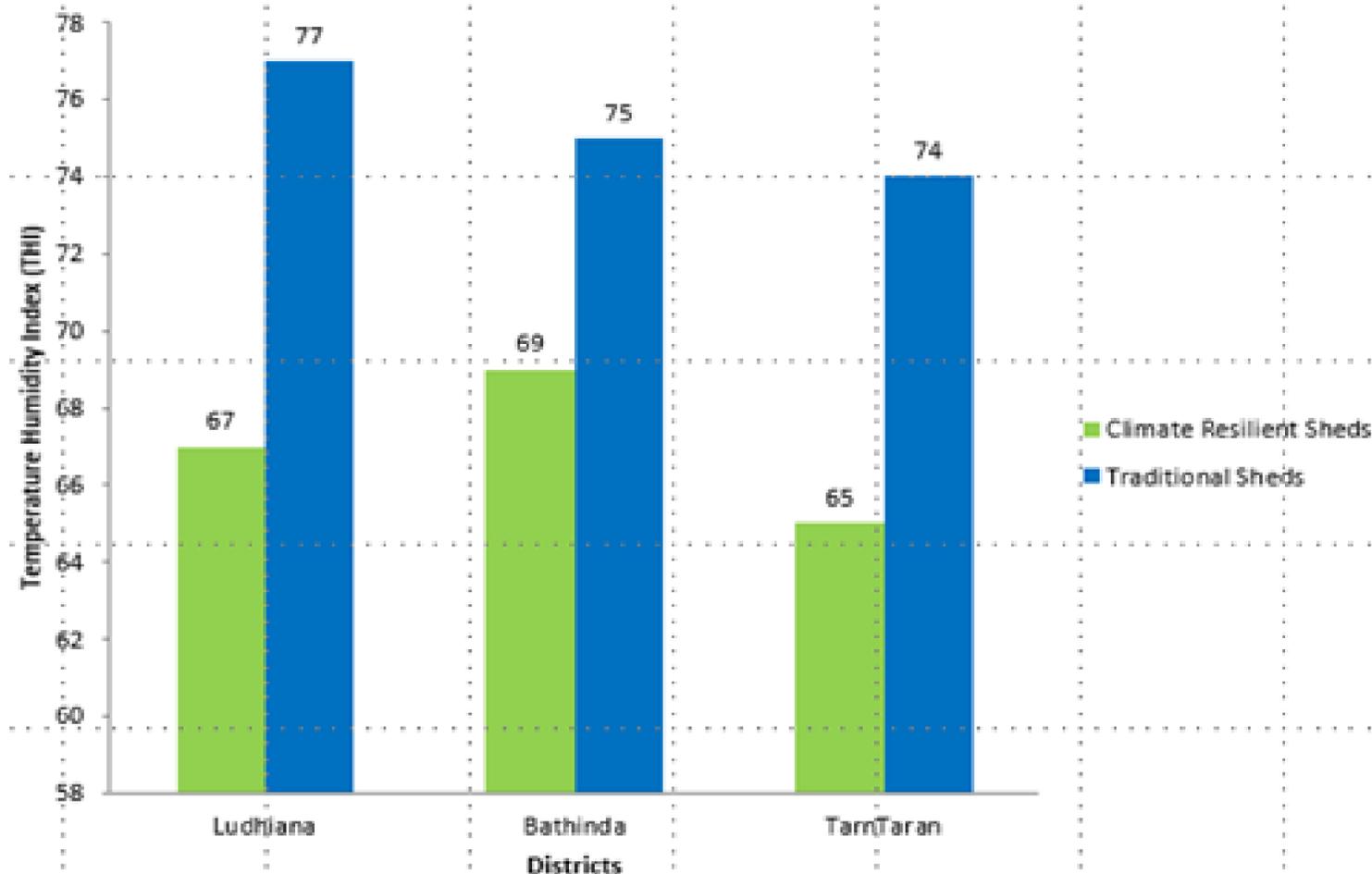
Model Climate Resilient Cattle shed also designed & demonstrated for large-scale commercial Dairy farmers

Impact of Climate Resilient Cattle Sheds

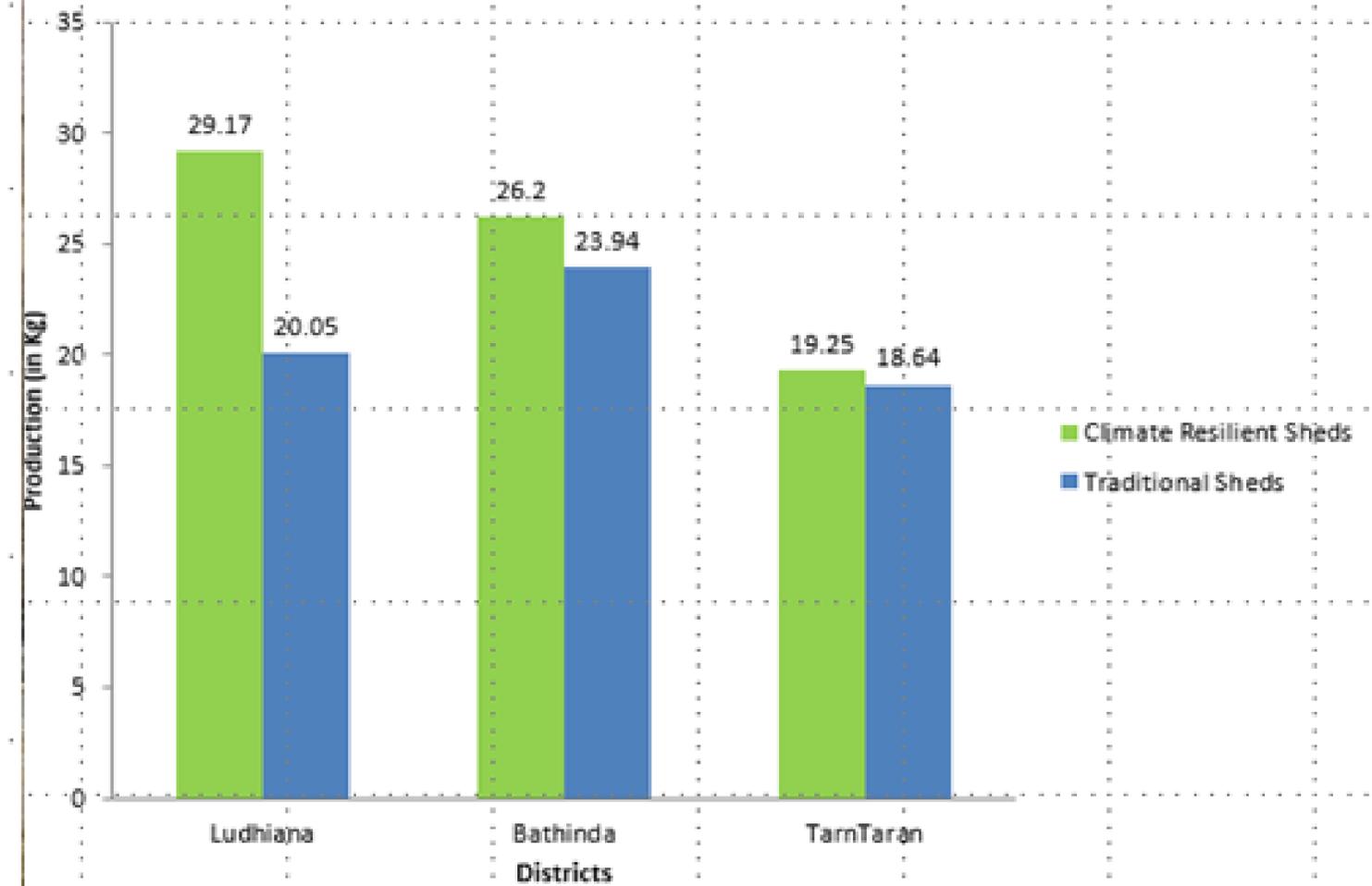
Increase in productivity : ~ 20%

Reduction in parasitic infection incidences : ~35%

Comparison of THI



Comparison of Milk Production

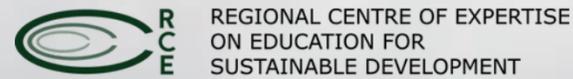




Trained >5000 farmers & youth entrepreneurs through outreach programs



Punjab leading in Climate Resilient Livestock Production for ensuring food security



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सत्यमेव जयते
Department of Science and Technology (DST)

DST

Department of Science &
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