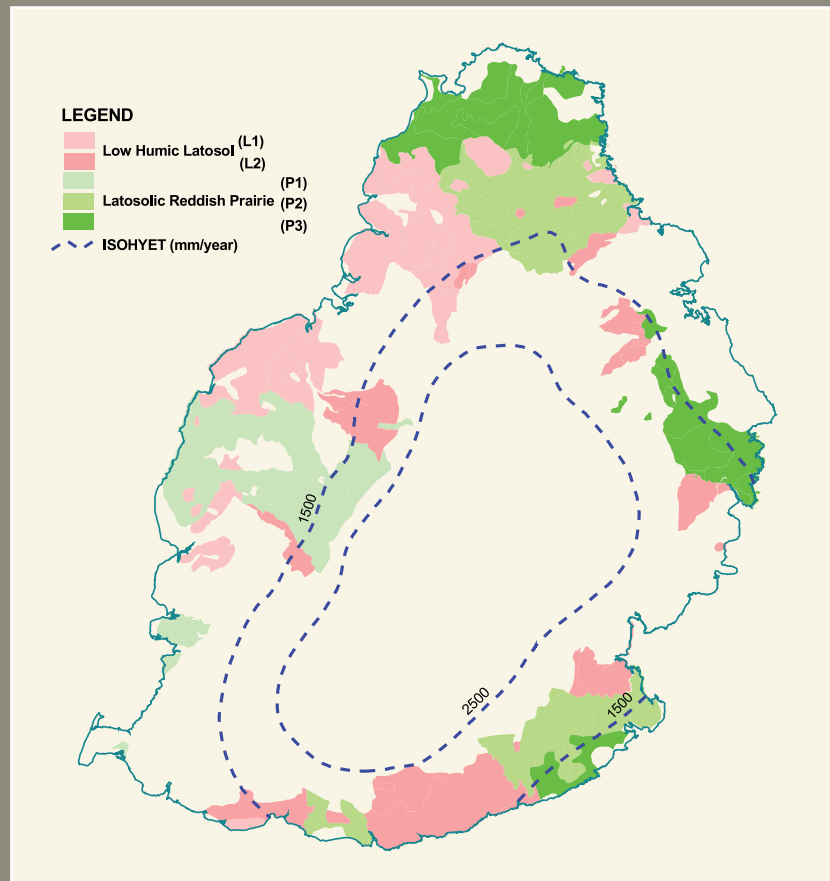
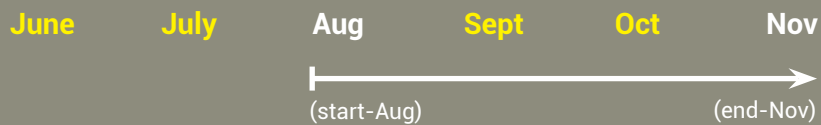


## REGIONS where M 683/99 can be cultivated (provisional)\*



### Provisional harvest period\*



\* (refer to the current MSIRI Recommendation Sheets)

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**MAURITIUS SUGARCANE INDUSTRY RESEARCH INSTITUTE**  
*Notes on newly-released sugarcane varieties*



No. 17  
December 2016

## M 683/99



**A high-yielding variety with fairly high sugar yield for the L and P soils of the humid and sub-humid zones.**

**Suitable for middle-season and late-season harvests.**

**Year of release: 2015**



STREAK DESIGNS

## GENERAL features

- Growth habit → *fairly erect*
- Tillering → *fairly high*
- Stalk number → *medium*
- Stalk height → *fairly tall*
- Stalk diameter → *fairly large*
- Trashing → *fairly difficult*
- Flowering → *low to average*
- Germination → *good*
- Ratooning ability → *good*
- Ground coverage → *good*

## DISEASE reaction

- Resistant to gumming
- Slightly susceptible to smut
- Susceptible to yellow spot
- Highly susceptible to leaf scald

# M 683/99

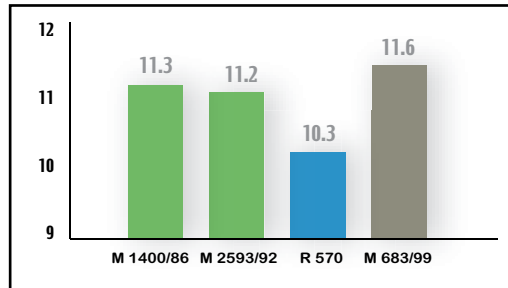
## INTERNODES

- Yellowish with a greenish tinge when freshly trashed; greenish yellow with a pinkish tinge when exposed to sunlight
- Medium length
- Fairly large diameter
- Cylindrical, slightly zigzagging
- Medium waxiness
- One to two rows of root primordia
- Narrow, brownish yellow growth ring
- Shallow bud groove extending to two-thirds of the internode

## RESULTS from trials

### Mean sugar yield (tha<sup>-1</sup>) at mid-season and late-season harvests

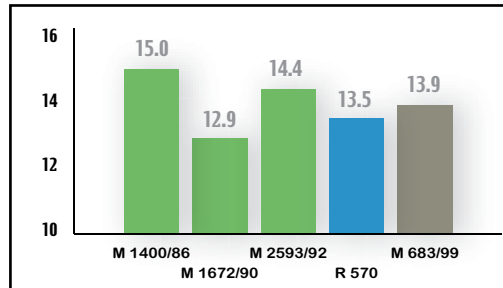
Mean of plant cane and 2 ratoons



Mon Loisir - L2 soil (Rainfed)

Rainfall: 1400 mm - Altitude: 168 m

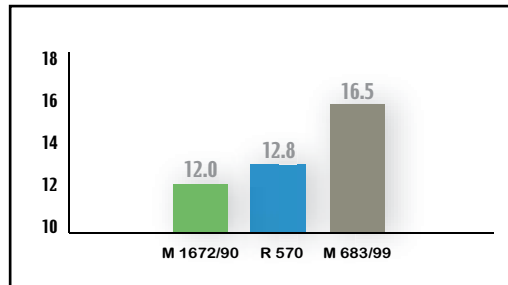
Mean of plant cane and 3 ratoons



Medine - P1 soil (Irrigated)

Rainfall: 700 mm - Altitude: 100 m

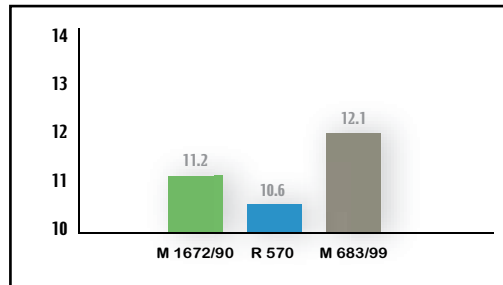
Mean of 2 ratoons



Medine - L1 soil (Irrigated)

Rainfall: 1800 mm - Altitude: 168 m

Mean of plant cane and 2 ratoons



Belle Vue - P2 soil (Rainfed)

Rainfall: 1300 mm - Altitude: 70 m

## LEAVES

- Wide and long, recumbent halfway
- Olive green
- Glabrous leaf sheath
- Auricles:
  - Inner: short deltoid
  - Outer: straight transitional
- Dewlaps: squarish subcrenate

## BUDS

- Ovate with narrow wings
- Inserted level with leaf scar and ending below growth ring

Note: Keys for botanical descriptions, refer to: "Sugarcane Varieties in Mauritius - A Botanical Description" MSIRI (1990), 94p, 37pls.