

**CP 04-1844**

Sugarcane cultivar ‘CP 04-1844’ was released in 2011 for sand soils in Florida. Basic information (Table 1) and information on disease and yield (Table 2) are provided in the tables below. Yields are an average of plant cane, first and second ratoon. Numbers in the table 2 represent actual yield and number in parentheses is the percent difference from commercial check, CP 78-1628 planted in same trial.

### **Abbreviations:**

- **Tonnage:** Sugarcane biomass yield in tons/acre
  - **CRS:** Commercial Recoverable Sucrose (lbs of sugar/ton of cane)
  - **TSA:** Tons of sugar per acre
  - **Economic index:** Profitability based on crop value after deducting harvesting and transportation cost
  - **Diseases:** SCMV, Sugar Cane Mosaic Virus; RSD, Ratoon Stunting Disease; SCYLV, Sugar Cane Yellow Leaf Virus
- R=Resistant; MR=Moderately resistant; MS=Moderately susceptible; S=Susceptible
- **Bru1 gene:** + is present; - is absent

Table 1

Basic Information	
Release date	June-2011
Soil type	Sand
Parents	CP 97-1989 x CP 84-1198
Freeze tolerance	Good, better than CP 89-2143
Flowering	Moderate to heavy beginning in late November
Best features	Resistant to smut, moderately resistant to both rusts, mosaic, and RSD. High tonnage
Limiting features	Low sugar, susceptible to leaf scald
Other issues	Moderately susceptible to rust mite, light to moderate lace bug and ring spot levels

Table 2

Yield and disease information	
Trait	CP 04-1844 (Yields compared to CP 78-1628)
Tonnage	58.8 (+27%)
CRS	236.6 (-5%)
TSA	7.0 (+20%)
Economic Index	\$1110 (+17%)
Fiber	9.9%
Brown rust	MR
<i>Bru1</i>	+
Orange rust	MS
Leaf scald	S
Smut	R
SCMV	MR
RSD	MR
SCYLV	S



CP 04-1844 in late growth stage in sand soil



CP 04-1844 top with auricles



CP 04-1844 bud



CP 04-1844 mature stalks



CP 04-1844 internode cross-section (diameter compared to quarter dollar)