

CP 09-4160

Sugarcane cultivar ‘CP 09-4160’ was released in 2016 for both muck and 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, CL 88-4730 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-2016
Soil type	Sand
Parents	CP 80-1743 x Poly 01-8
Freeze tolerance	Moderate
Flowering	Flowers heavily beginning in late Nov. or early Dec.
Best features	Resistant to all major sugarcane diseases in Florida
Limiting features	Flowering
Other issues	Light ring spot, light spider mite, light to moderate rust mite

Table 2

Yield and disease information	
Trait	CPCL 09-4160 (Yields compared to CP 88-4730)
Tonnage	53.6 (+9%)
CRS	258 (-8%)
TSA	6.8 (+3%)
Economic Index	\$1101 (-1%)
Fiber	11.6
Brown rust	R
<i>Bru1</i>	-
Orange rust	R
Leaf scald	R
Smut	R
SCMV	R
RSD	R
SCYLV	R



CP 09-4160 at early growth stage in sand soil



CP 09-4160 at late growth stage in sand soil



CP 09-4160 top with auricles



CP 09-4160 bud



CP 09-4160 mature stalks



CP 09-4160 internode cross-section (diameter compared to quarter dollar)