

CPCL 05-1791

Sugarcane cultivar ‘CPCL 05-1791’ was released in 2012 for sand soil 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-2012
Soil type	Sand
Parents	CP 96-1252 x CL 90-4725
Freeze tolerance	Moderate to poor
Flowering	None to light beginning in late December
Best features	High tonnage, resistant to smut and mosaic, and moderately resistant to orange rust, leaf scald, and RSD
Limiting features	Susceptibility to brown rust, lower tonnage in second stubble
Other issues	Light to moderate levels of Pokah Boeng, moderate ring spot and sometimes light lace bug damage

Table 2

Yield and disease information	
Trait	CPCL 05-1791 (Yields compared to CP 78-1628)
Tonnage	49.5 (+23%)
Sucrose (CRS)	241.3 (+3%)
Sugar per acre (TSA)	6.0 (+29%)
Economic Index	\$934 (+40%)
Fiber	12.3%
Brown rust	S
<i>Bru1</i>	-
Orange rust	MR
Leaf scald	MR
Smut	R
SCMV	R
RSD	MR
SCYLV	S



CPCL 05-1791 at late growth stage in sand soil



CPCL 05-1791 top with no auricles



CPCL 05-1791 bud



CPCL 05-1791 internode cross-section
(diameter compared to quarter dollar)