

**CPCL 05-1102**

Sugarcane cultivar ‘CPCL 05-1102’ was released in 2012 for muck 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 89-2143 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	Muck
Parents	CL 89-5189 x CL 88-4730
Freeze tolerance	Excellent
Flowering	Light to moderate beginning in early to mid-December
Best features	Resistant to smut and mosaic. Good CRS
Limiting features	Tonnage is not significantly greater than check
Other issues	Light to heavy ring spot symptoms, light to heavy rust mite damage, and moderate to heavy lace bug damage

Table 2

Yield and disease information	
Trait	CP 05-1102 (Yields compared to CP 89-2143)
Tonnage	61.1 (+2%)
CRS	240.6 (+1%)
TSA	7.4 (+3%)
Economic Index	\$1189 (+5%)
Fiber	10.2%
Brown rust	MR
<i>Bru1</i>	-
Orange rust	MR
Leaf scald	MR
Smut	R
SCMV	R
RSD	MS
SCYLV	S



CPCL 05-1102 at early growth stage in muck soil



CPCL 05-1102 at late growth stage in muck soil



CPCL 05-1102 top with auricles



CPCL 05-1102 mature stalks



CPCL 05-1102 bud



CPCL 05-1102 internode cross-section (diameter compared with quarter dollar)