

CPCL 02-6848

Sugarcane cultivar ‘CPCL 02-6848’ was released in 2012 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 checks, CP 89-2143 in muck and CP 78-1628 in sand, 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 and Sand
Parents	CL 92-2533 x Poly 01-9
Freeze tolerance	Moderate to poor
Flowering	Generally none
Best features	High tonnage in plant cane through second ratoon, resistant to brown rust and smut, better tolerance to drought
Limiting features	Susceptible to orange rust, moderate breakage in early planted fields
Other issues	Light ring spot symptoms and light rust mite damage in the fall

Table 2

Yield and disease information	
Trait	CPCL 02-6848 (Yields compared to CP 89-2143 in muck and CP 78-1628 in sand)
Tonnage	Muck=72.9 (+22%) ,Sand=49.3 (+23%)
CRS	Muck=230.4 (-3%), Sand=243.3 (+4%)
TSA	Muck=8.4 (+17%), Sand=5.9 (+27%)
Economic Index	Muck=\$1288 (+14%), Sand=\$911 (+37%)
Fiber	13%
Brown rust	R
<i>Bru1</i>	+
Orange rust	S
Leaf scald	MR
Smut	R
SCMV	MR
RSD	MR
SCYLV	S



CPCL 02-6848 at early growth stage in muck soil



CPCL 02-6848 at early growth stage in sand soil



CPCL 02-6848 at late growth stage in sand soil



CPCL 02-6848 top



CPCL 02-6848 mature stalks



CPCL 02-6848 bud



CPCL 02-6848 internode cross-section (diameter compared to quarter dollar)