

**CP 06-2042**

Sugarcane cultivar ‘CP 06-2042’ was released in 2014 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 muck and CP 78-1628 in sand soil.

### **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-2014
Soil type	Muck and Sand
Parents	CP 96-1252 x 01 P 04
Freeze tolerance	Low
Flowering	Moderate beginning mid to late December
Best features	High tonnage, high early sucrose, and resistant to brown rust
Limiting features	Susceptible to orange rust, moderately susceptible to scald
Other issues	Light to moderate ring spot, light rust mite levels, and sometimes light lace bug levels in the fall

Table 2

Yield and disease information	
Trait	CP 06-2042 (Yields compared to CP 89-2143 in muck and CP 78-1628 in sand)
Tonnage	Muck=78.4 (+26%), Sand=50.6 (+13%)
CRS	Muck=233.2 (-2%), Sand=248.5 (+2.6%)
TSA	Muck=9.2 (+22%), Sand=6.3 (+14%)
Economic Index	Muck=\$1442 (+21%), Sand=\$1003 (+15%)
Fiber	11.4%
Brown rust	R
<i>Bru1</i>	+
Orange rust	S
Leaf scald	MS
Smut	MR
SCMV	MR
RSD	MS
SCYLV	S



CP 06-2042 at early growth stage in muck soil



CP 06-2042 at early growth stage in sand soil



CP 06-2042 at late growth stage in sand soil



CP 06-2042 top with auricles



CP 06-2042 bud