CP 09-4153

Sugarcane cultivar ‘CP 09-4153’ was released in 2016 for 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	CPCL 97-0393 x CPCL 02-8021
Freeze tolerance	Moderate to low
Flowering	Heavy flowering beginning in early December
Best features	Resistant to orange rust, smut, leaf scald, mosaic and Yellow leaf disease
Limiting features	Flowering
Other issues	Light ring spot, light rust mite and lace bug levels.

Table 2

Yield and disease information	
Trait	CP 09-4153 (Yields compared to CP 88-4730)
Tonnage	65.2 (+32%)
CRS	265.1 (-5%)
TSA	8.5 (+28%)
Economic Index	$1256 (+13%)
Fiber	11.8%
Brown rust	MR
Bru1	-
Orange rust	R
Leaf scald	R
Smut	R
SCMV	R
RSD	MS
SCYLV	R

CP 09-4153 at early growth stage in sand soil

CP 09-4153 at late growth stage in sand soil

CP 09-4153 top with no auricles

CP 09-4153 mature stalks

CP 09-4153 internode cross-section (diameter compared to quarter dollar)