Osiryl® an efficient biostimulant for sugarcane
MARION D1,2, PAYET O3, ADRAS JN3

Osiryl® is a Biostimulant (a.i. OSYR, obtained by depolymerization of ligno-cellulosic compounds) which promotes root growth by slowing down auxin degradation.

MATERIAL AND METHODS
In 2013 & 2014, on ratoon cane, in two fields trials, in a strip plot design with three replicates, three rates of biostimulant, 10, 15 and 20 l ha⁻¹ (a.i. 400 g l⁻¹), were sprayed, targeting trash blanket with pre-emergent herbicides or alone on cane foliage. Treatments were compared to a control without Osiryl®. Mineral fertiliser applied was identical on all plots.

RESULTS
On sugarcane production, the three treatments with the biostimulant were more productive than the untreated control, both in cane and sugar yield. Osiryl® had no impact on the CCS. Differences were statistically significant for rates of 15 and 20 l/ha¹ (p < 0.0001) with respectively + 10.2 and 18.0 t ha⁻¹ in cane and + 2.0 and + 2.7 t ha⁻¹ in sugar (GML in Minitab). The average yield of the untreated control was 94.1 t ha⁻¹ in cane, equivalent to 13.8 t ha⁻¹ sugar.

CONCLUSION
Osiryl® is an efficient abiotic biostimulant to optimize production resources like water and nutrients in a sustainable agriculture, both from environmental and economical perspectives.