

1

Samples containing trash, billets, juice and tops are collected from a measured tarped area.

2

This is then weighed to calculate total tonnes per hectare of residue.

3

The field residue is mulched and processed.



The in-field sucrose loss measurement system (ISMS)

The ISMS trailer is a mobile system to measure harvesting losses in the paddock that can provide fast and accurate information to the industry. Both Wilmar sugar and Mackay Area Productivity Services (MAPS) have invested in the trailers, and are an integral part of SRA's demonstration trials into harvesting efficiency. The process is described from steps 1-5.



4

The samples are then combined with water blended and pressed on a 9 tonne carver press to obtain a liquid extract that can be analysed for sugar content through a Brix refractometer.



5

From this information, tonnes of sugar and cane per hectare as well as dollars per hectare can be calculated from different harvester configurations.