2.4: Database technical reports
Version: 19/04/2013

Didier DEBROIZE
Didier.debroize@ille-et-vilaine.chambagri.fr
Phone: +33 299 397 294

http://efficient20.eu/
Database Values

There are 2,486 operations recorded in the database. 267 drivers from 142 farms in 90 pilot groups have recorded those data. 361 fuel consumption reduction solutions have been tested in the project.

The activity type with the maximum of record is Soil tillage with more than 1000 records followed by harvesting (more than 500) and forest harvesting (more than 300).
Soil tillage implements and number of measurements

Plough (175 operations) and light cultivator (85 operations) have been the most used implements. The seed bed combination reaches the highest fuel consumption value.

Harvesting implements

Complete beet harvester is the most recorded implements (172 operations) followed by mower (109 operations) and forage harvester (70 operations).

Forest harvesting

Forest harvester is the implement with the highest number of records in the database.
Fuel consumption reduction solutions

Eco driving has been the most tested solution at this stage of the project with more than 140 tests. Adapt implement’s settings and tyre management are the other main solutions.

Solutions

EcoDriving (Soil tillage)

The EcoDriving solution tests always show a decrease of the fuel consumption in l/ha between 2 and 14 %. The over consumption during ploughing is surprising.
Adapt implement's settings (Soil tillage)
The effectiveness of adapt implement’s settings vary between 8 and 26 % of fuel consumption.

Tyre Management (Soil tillage)
The tyre Management solution tests show various results until 13 % consumption reduction.

Adapt weigths (Soil tillage)
The Adapt weigth solution tests show good results from 5 to 16% of reduction.