

Flail Fundamentals Project (ITEP Project 3.2.46)



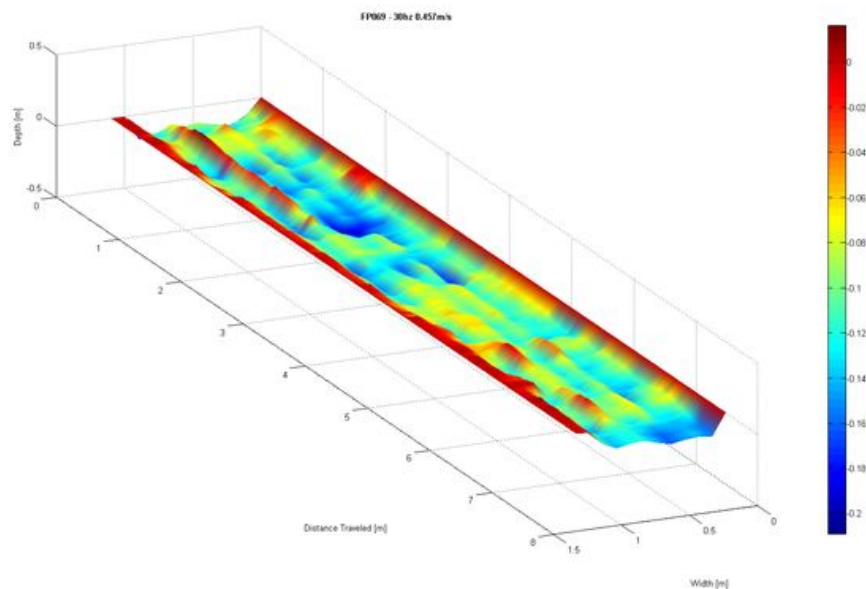
Chain Flail Evaluation Platform flailing during tests to determine the influence of variables such as flail hammer type, chain length, rotational speed, travel speed, rotation direction, depth setting etc. on the flail ground penetration depth profile



View of the ground penetration after passing of the Chain Flail Evaluation Platform in the Suffield prairie ground.



Instrument used to measure and digitise the ground penetration depth profile after processing of the test area with the Chain Flail Evaluation Platform. The system provides measurements comparable to 12 very long fibreboards placed lengthwise along the flailing path. It allows for visualisation of the ground penetration depth profile and calculation of ground penetration depth quantitative indicators such as the maximum effective depth and the soil penetration efficiency.



Visualisation of the ground penetration depth profile obtained after processing of the test area with the Chain Flail Evaluation Platform. These profiles are compiled for each combination of variables (flail hammer type, chain length, rotational speed, travel speed, rotation direction, depth setting) tested.