Use case: Evaluate the impact of different commercial feeds on trout production performance

This use case illustrates how FEEDNETICSTM can be used to evaluate the impact of two high energy feeds on rainbow trout production performance, and to quantify savings on feed obtained by the best performing scenario. This use case was set up for a generic RAS farm and two commercial feeds used by the rainbow trout RAS industry were considered. The key results and outcomes are presented in the figure below and are only applicable to the input data specified. Changes in rearing temperature, feed properties, feeding rates and target harvest weight will alter results and main outcomes. In this case, the main outcomes identify Aquafeed 1 as leading to an overall better performance, including a significant decrease in the total N and P wastes, as well significant better economic conversion. This information is highly relevant for optimizing RAS production as it implies a balance between fish growth, feed efficiency, water quality and profitability. Evaluating feeding efficiency indicators is very important, not only for feed conversion economics, but also for planning and managing the biofilter.



