



# Release notes – Overseer version 6.5.6

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## 1. Overview

The OverseerFM model release 6.5.6 includes a minor bug fix to the maintenance fertiliser modelling for pastoral blocks. This update does not affect any other model results, so there will be **no changes to the N, P and GHG results**.

In model versions prior to the 6.5.5 version of the model, issues were identified with calculating the nutrient balance for animal product. Specifically, for some farming systems, such as intensive fattening systems or farms with livestock, the model's method of calculating nutrient maintenance recommendations was inaccurate. This issue occurred when livestock herds were gaining weight during the year and their source or fate was recorded as "on-farm" or left unspecified.

In model version 6.5.5 adjustments were made to consider animals only at the block level where maintenance calculation is performed. The fate of animals at the farm level shouldn't have been considered, only at the block level. This adjustment ensured a more accurate calculation of nutrients removed in animal products, providing more reliable maintenance recommendations.

However, while these changes corrected the issues with live weight gain products, they introduced a new issue. The revised method underestimated nutrient removal for other animal products, such as milk or wool. This underestimation led to discrepancies in the overall nutritional balance. This has now been rectified in version 6.5.6 of the model.

## 2. Overall impact on modelled results

Overall, there is **no impact on N, P or GHG results** from the upgrade to Overseer model version 6.5.6.

Only maintenance fertiliser results for pastoral blocks in farming systems that produce products other than live weight gain are impacted. For example, farming systems involving milk or wool are impacted.

The impact of changes has been tested using the complete database of c.150,000 analyses (c. 130,000 analyses that have results), and a smaller subset of the latest year analyses for all farms modelled in the Overseer database (c.10,100 analyses).