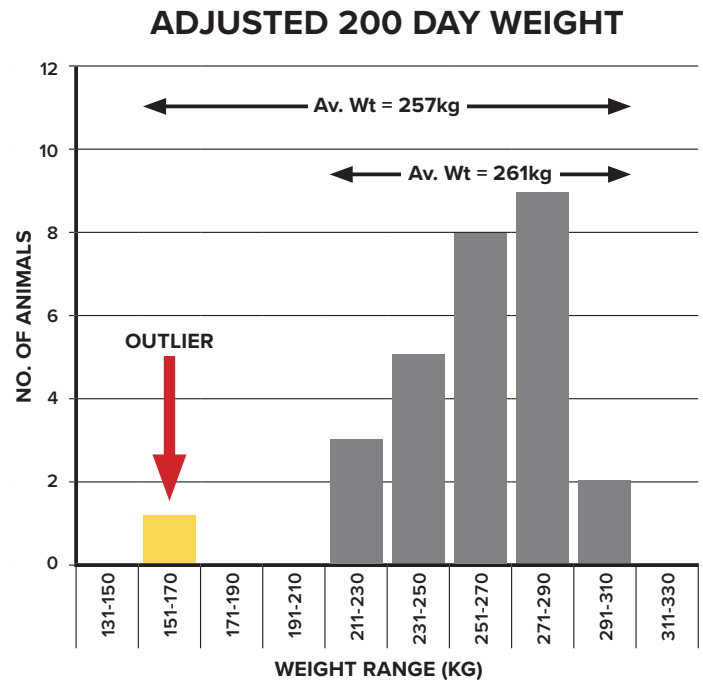


What is an Outlier?

When BREEDPLAN carry out a group run, it examines the performance information of animals within each contemporary group. If management groups have been used correctly, each group will only include animals of similar type and similar performance environments. While some variance is natural, when the difference between a performance record for an animal, and the average of all animals in the group is much greater than expected for the measurable trait, this animal is identified as an outlier.

Why do they happen?

- Incorrect measurements may have been recorded (*data collection errors, transcription errors*).
- Incorrect animal details may have been recorded (*date of birth, sex*).
- Correct management grouping may not have been used.
- The genetics of the individual animal may significantly vary to others in the group.



What to check when an Outlier report is received

- **Is the performance data correctly recorded?**
Are the measurement and date correct, and does it relate to the correct animal?
- **Are the animal details correctly recorded?**
Are the sex of the animal, date of birth, sire and dam, birth number and birth status all correct?
- **Is the animal being analysed in the correct management group?**
Has the management group been correctly recorded?
Has the animal had the same opportunity to perform as the other animals? Has it been sick or injured, or received preferential treatment while being prepared for show or sale?

What happens when an outlier is identified and how are they displayed?

- The registry team will send you an outlier report to verify the performance record or records in question.
- This gives you the opportunity to review and correct or verify the outlier.
- Outlier animals are marked in **bold** with a # in both the left and right hand margins, and adjacent to the raw observation.
- Also reported are the other animals with which the outlier animals have been directly compared in the BREEDPLAN analysis.
- Different groups are separated in the outlier report by blank lines. This report will not show all animals in your herd.

How do I correct or verify the outliers?

- Reply to the email from the registry team that contained your outlier report, and specify corrections required or verify the data is correct.