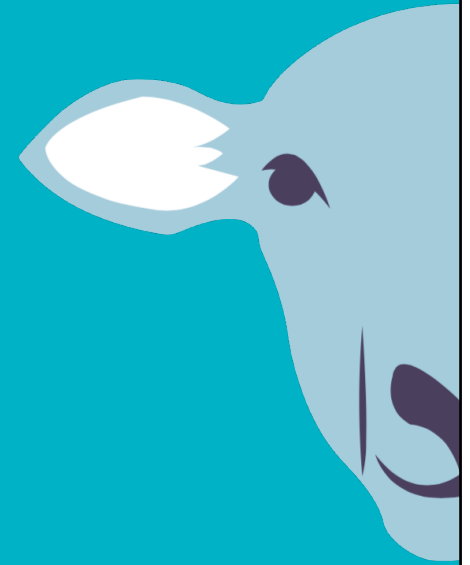




B+LNZ GENETICS
SHEEP BREEDER FORUM

2016



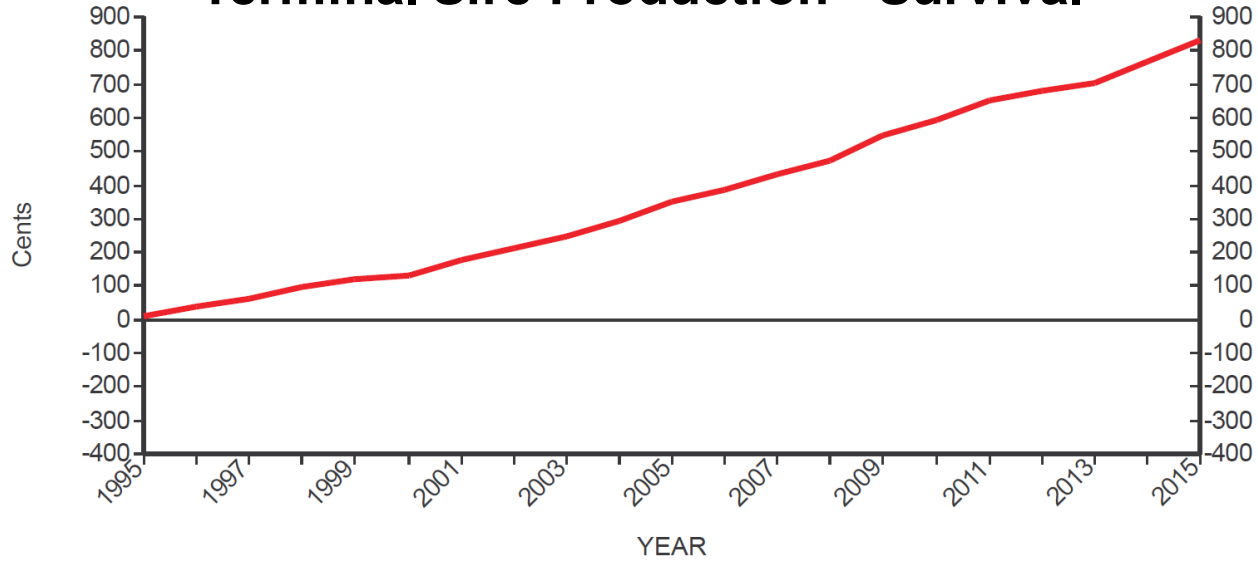
Genetic groups

Sheryl-Anne Newman, AgResearch

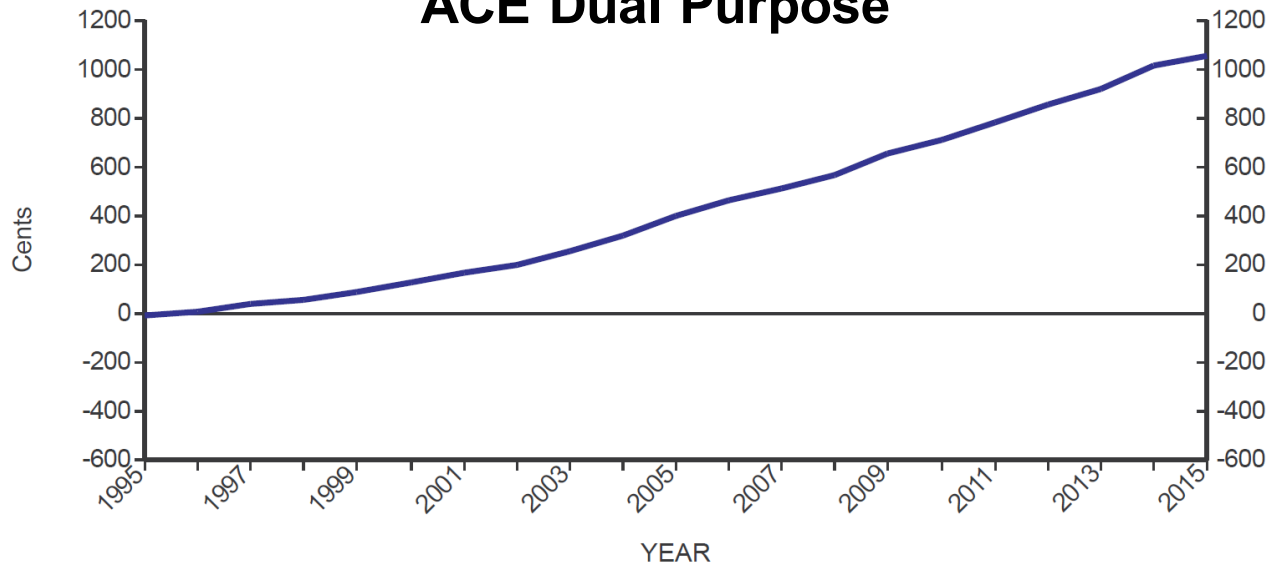
Background

- If making genetic progress then genetic merit will be increasing over time

Terminal Sire Production - Survival



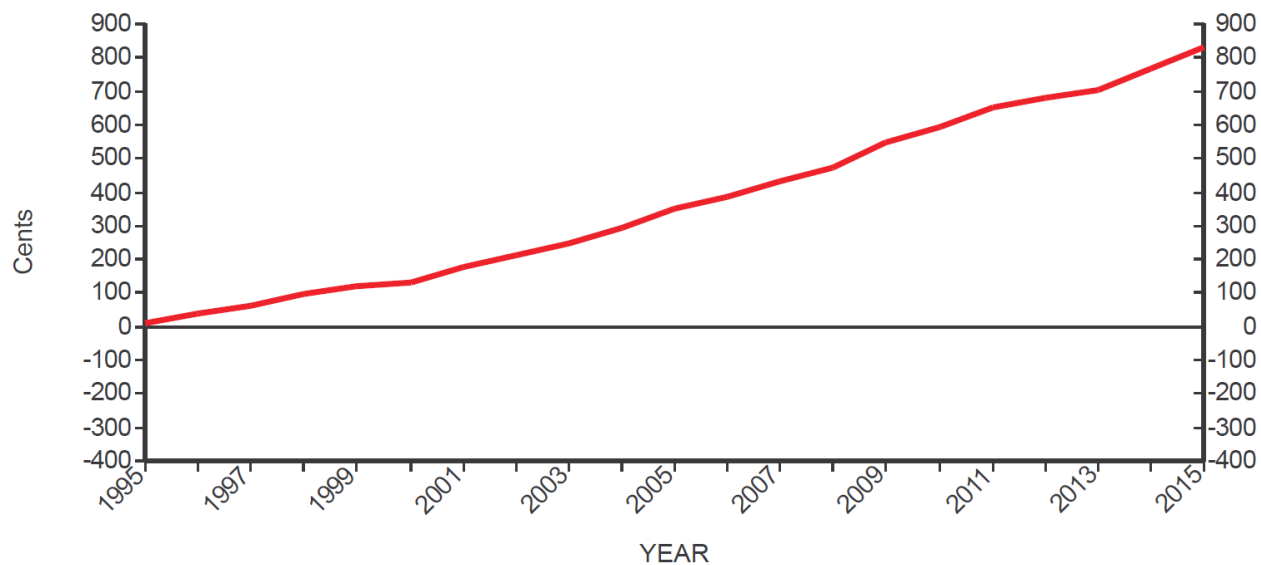
ACE Dual Purpose



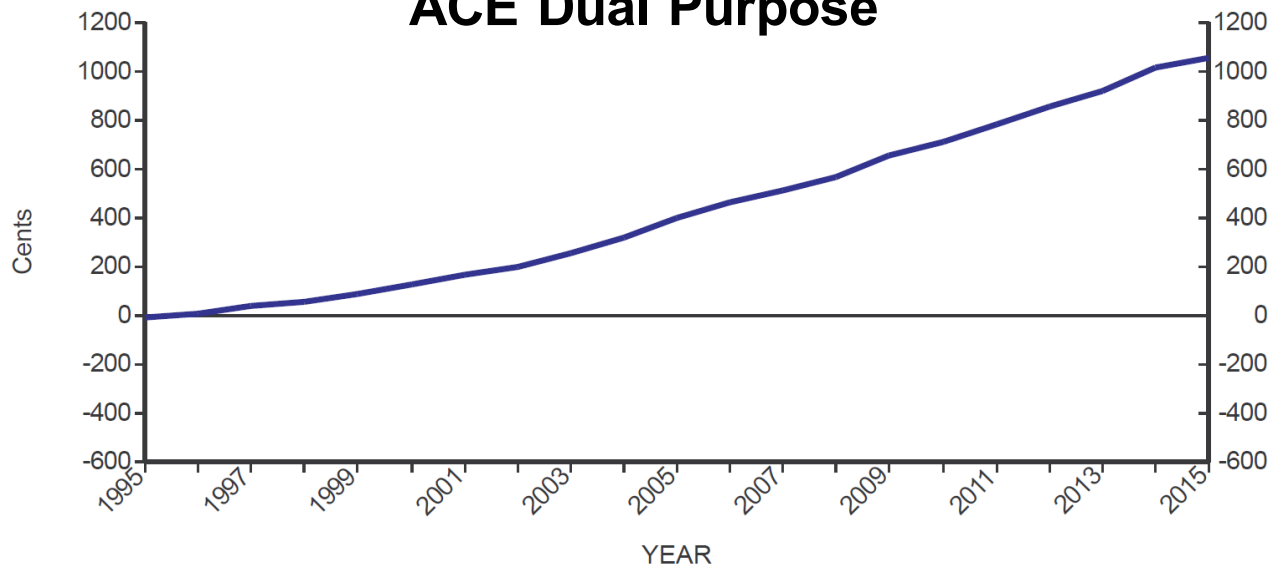
Background

- If making genetic progress then genetic merit will be increasing over time
- Currently animals which have no pedigree links are grouped with base animals
 - Outside sires
 - Screened in ewes
 - Animals with no pedigree
 - New flocks

Terminal Sire Production - Survival



ACE Dual Purpose



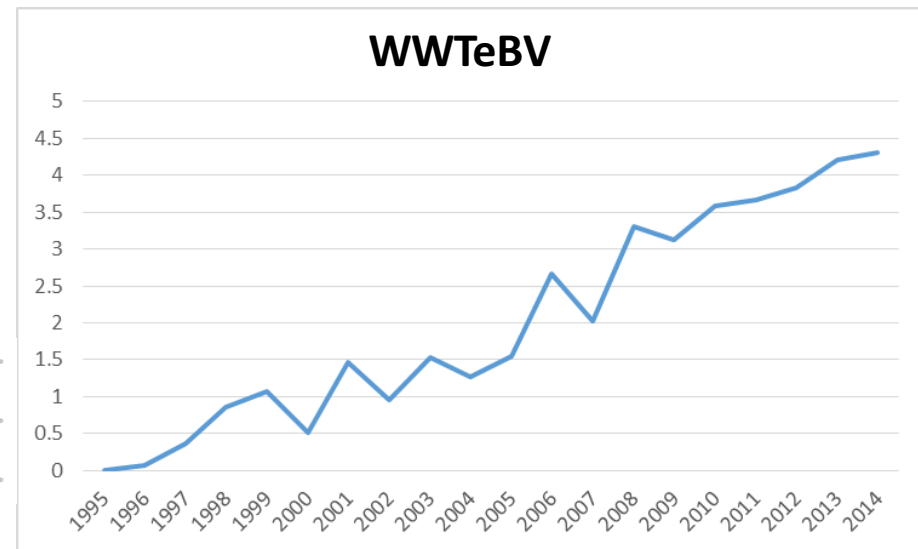
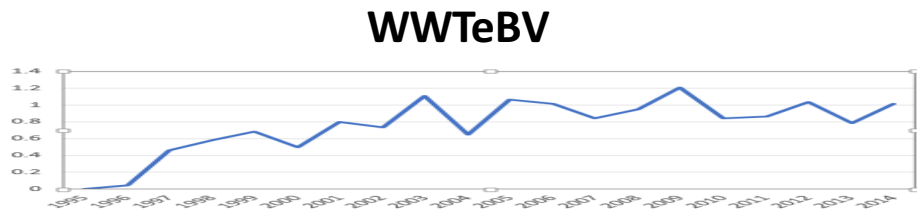
Formation of genetic groups

- Need large enough to enable accurate estimation of genetic group effects
- Want groups to be composed of similar animals
- Need information to be able benchmark the production level of that genetic group

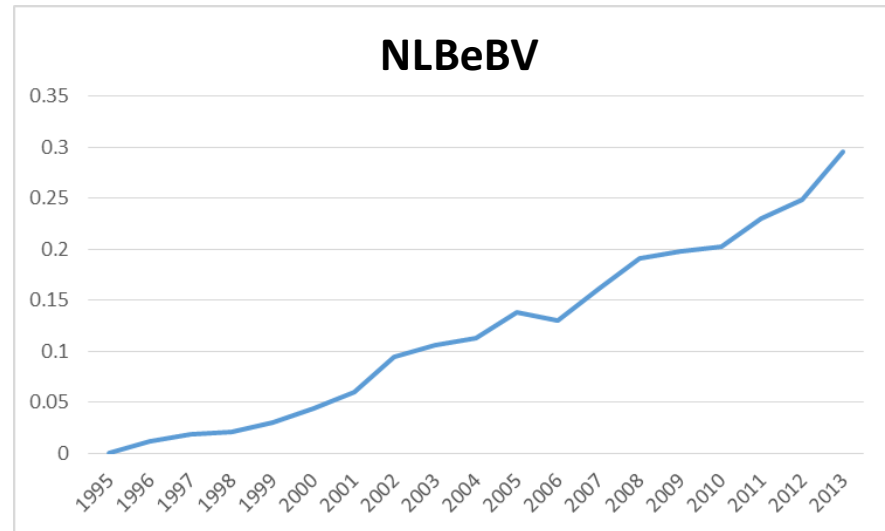
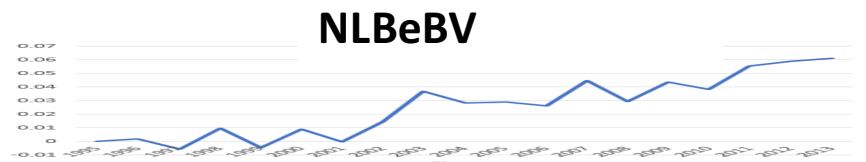
Genetic groups

- Flock – year(s)
- Breed

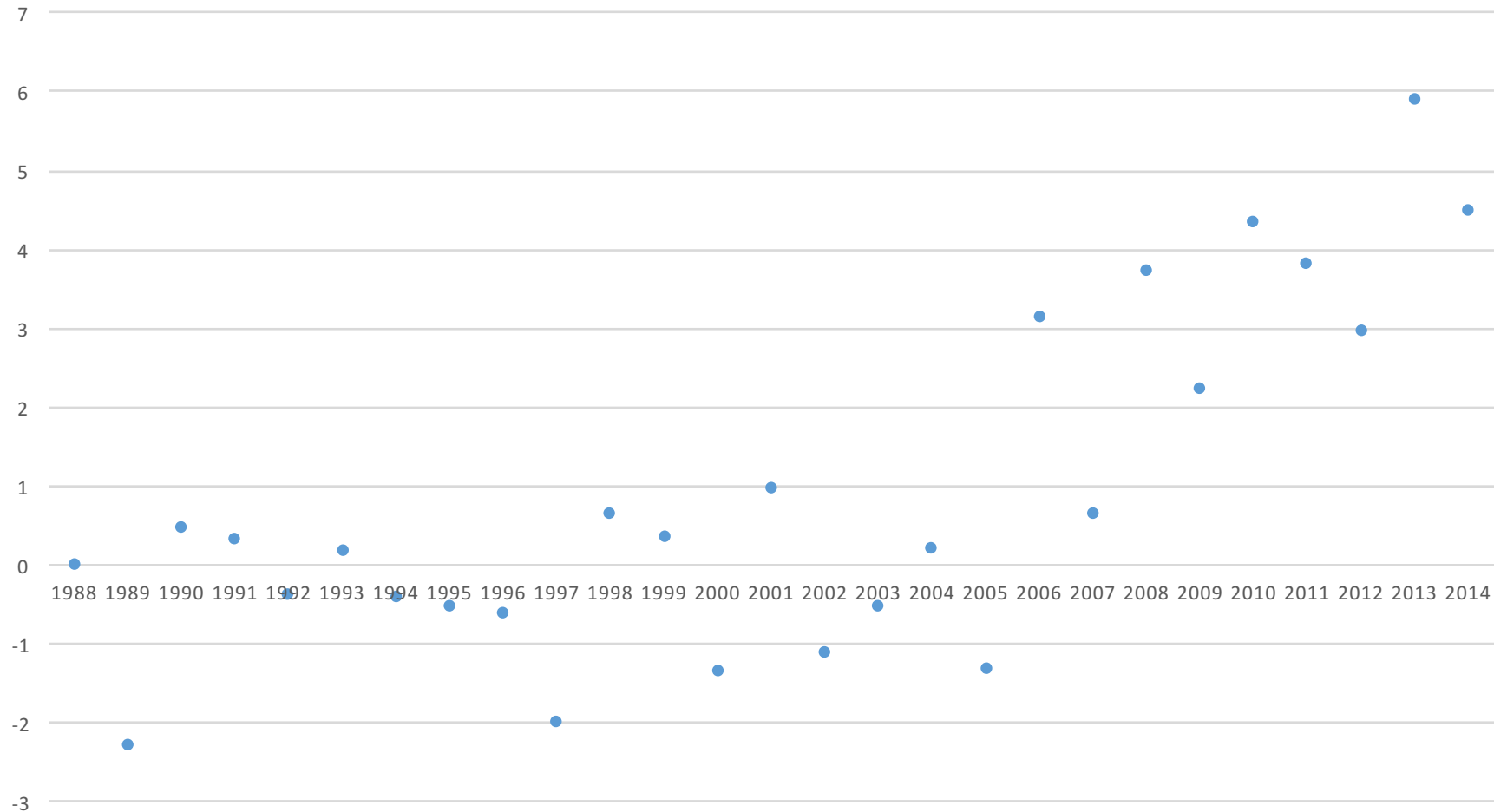
Genetic gains for WWTeBV including for genetic groups



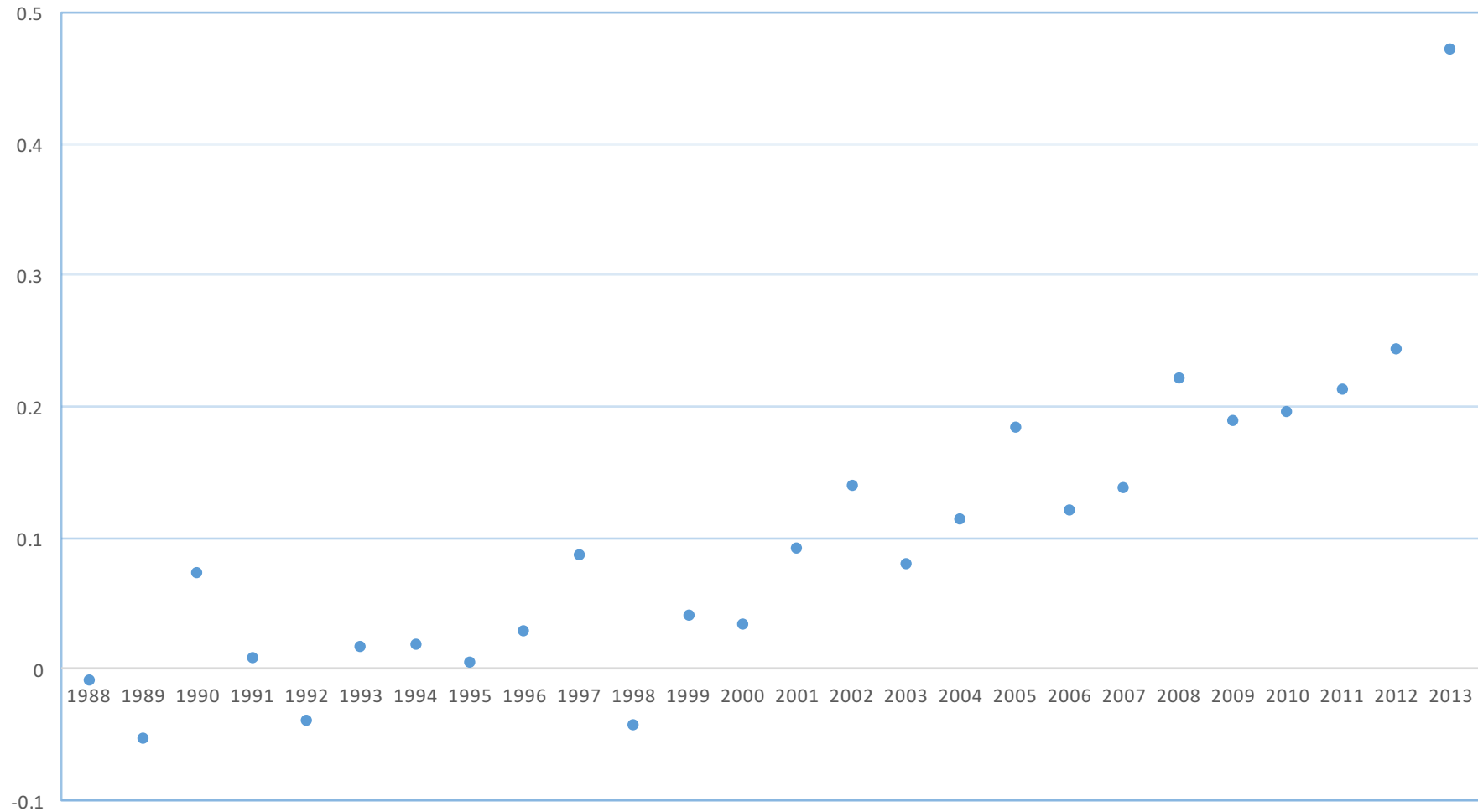
Genetic gains for NLBeBV including for genetic groups



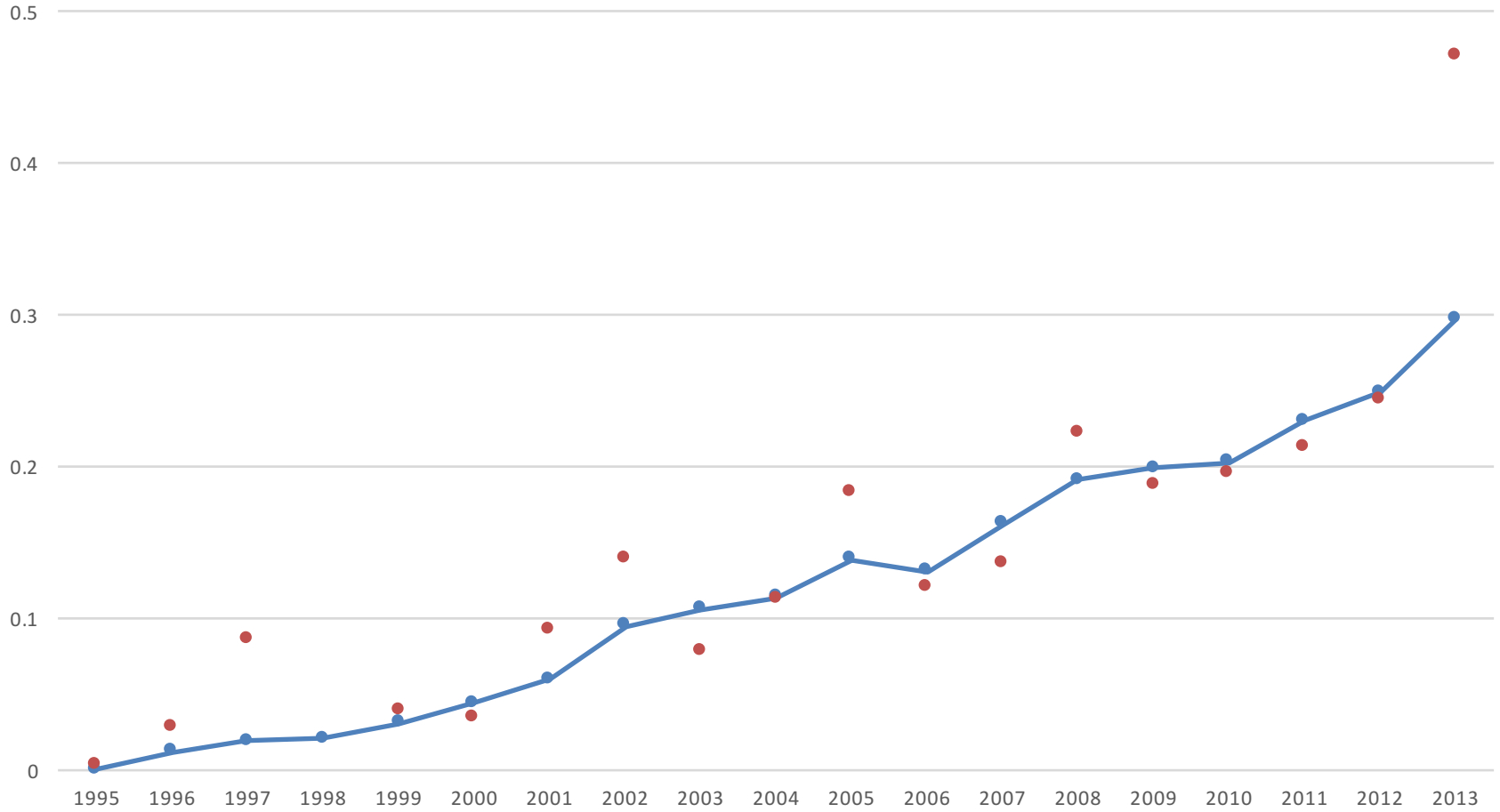
Genetic group values for WWTeBV



Genetic group values for NLBeBV

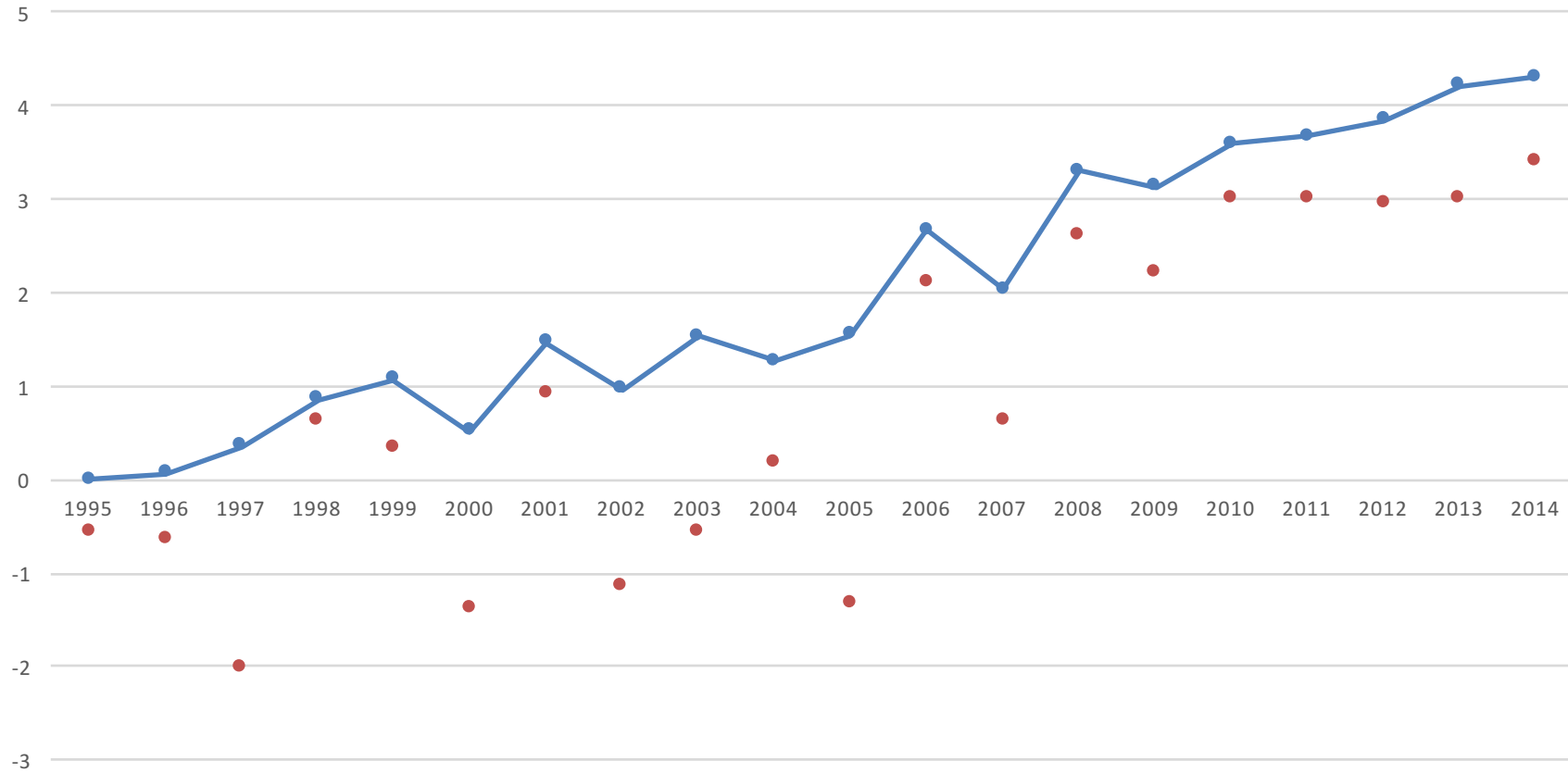


NLBeBV



-0.1

WWTeBV



Conclusions

- Fitting genetic groups improves the accuracy of estimated breeding values, especially for animals with no pedigree
- Specification of the genetic groups to be fitted is important



THANK YOU