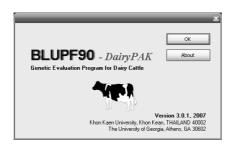
III. Genetic Evaluation At A Glance

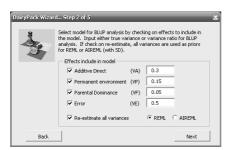
A. General View



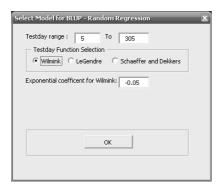
1. *DairyPAK* is a set of programs in BLUPF90 family with the specific purpose for dairy cattle evaluation.



2. DairyPAK performs variance component estimation using REML and BLUP methodology with wizard interface. Data file and pedigree files can be browsed directly from computer.



3. BLUP analysis can be done directly with true variance or variance ratio. In addition, the user can re-estimate variance components with REML or AIREML.

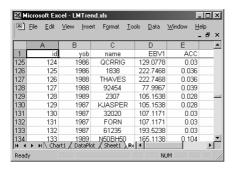


4. If random regression model is interested, three day in milk function of Wilmink, LeGendre, and Schaeffer and Dekkers can be selected. Range of DIM interval and exponential coefficient for Wilmink's function can be specified.

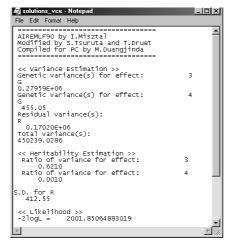


5. All effects in the model are simply specified by column number in original data file.

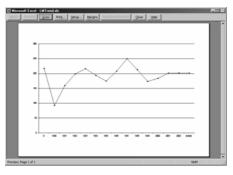
B. View of Reports



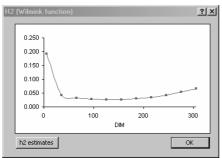
6. BLUP EBV report with accuracy is created using original ID in Excel format. Therefore, sorting, filtering can be done simply using Excel functions.



7. If REML or AIREML variance component estimation is performed, the new variance estimates are kept in a separate file.



8. A genetic trend report is also created if desired. All graphic properties can be modified using general Excel features.

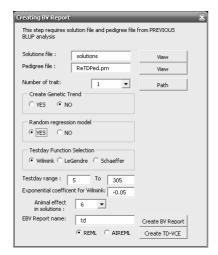


9. Estimates variance under random regression model provides test-day heritability plot.

C. Advanced Options

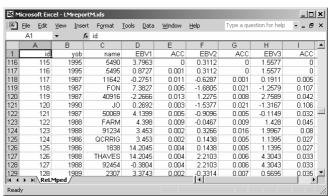


 Previous renumbered data and pedigree file with parameter file can be modified and reanalyzed.



11. BV reports for single trait, multi-trait or random regression from previous solutions from DairyPAK or another BLUP family can be recreated with specified options.

12. Multiple trait BV reports with accuracy can be created up to four traits.



13. For random regression model, BV report for 10 test days from specified interval of day in milk was easily calculated. Therefore, BV for each sire can be plot against DIM later with Excel chart.

