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| **Mathematical notation** | **Variance component name** | **Biological interpretation if multiple inbred lines are used in experiment**  **(genetic variation removed within lines)** | **Biological interpretation if multiple wild-collected ecotypes are used in experiment (genetic variation not removed within ecotypes)** |
|  | Variation among phenotypic deviations due to genotypes | Reflects phenotypic variation due to genetic differences among inbred lines, averaged across environments. Often interpreted as VG | Reflects phenotypic variation due to genetic differences among ecotypes, averaged across environments. Often interpreted as VG |
|  | Variation among phenotypic deviations due to environments | Reflects phenotypic variation due to environmental differences among sites, averaged across genotypes. Often interpreted as VE | Reflects phenotypic variation due to environmental differences among sites, averaged across genotypes. Often interpreted as VE |
|  | Interaction between genotypic and environmental deviations on phenotypes | Reflects phenotypic variation due to the environmental phenotypic deviation not being equal across genotypes.  Often interpreted as VGxE | Reflects phenotypic variation due to the environmental phenotypic deviation not being equal across genotypes.  Often interpreted as VGxE |
|  | Covariance between genotypic and environmental influences on phenotypes | Not often included in model calculation. | Not often included in model calculation. |
|  | Residual variation (Variation within groups) | Reflects phenotypic variation within inbred lines due to environmental noise. | Reflects phenotypic variation within ecotypes due to environmental noise and genetic variation within ecotypes. |