



Correction to: Assessment of agricultural sustainability in European Union countries: a group-based multivariate trajectory approach

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Correction to: AStA Advances in Statistical Analysis
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In this article Eqs. 9, 11 and 12 have displayed a piece of code, "[2pt]", which is not part of the equations. They now read as follows:

$$\begin{aligned} \mu_{j,t} &= \begin{pmatrix} \mu_{j,t}^{(o)} \\ \mu_{j,t}^{(\bar{o})} \end{pmatrix} \\ \Sigma_j &= \begin{pmatrix} \Sigma_j^{(o,o)} & \Sigma_j^{(o,\bar{o})} \\ \Sigma_j^{(\bar{o},o)} & \Sigma_j^{(\bar{o},\bar{o})} \end{pmatrix} \end{aligned} \quad (9)$$

$$\begin{aligned} \hat{\mathbf{B}}_j &= (\mathbf{X}'\mathbf{W}\mathbf{X})^{-1}\mathbf{X}'\mathbf{W}\mathbf{Y} \\ \hat{\mu}_{j,t} &= \hat{\mathbf{B}}_j'(1, t, t^2, \dots, t^d)' \\ \hat{\Sigma}_j &= \frac{\sum_{i=1}^n \pi_{i,j} \sum_{t=1}^T (\mathbf{y}_{i,t} - \hat{\mu}_{j,t})(\mathbf{y}_{i,t} - \hat{\mu}_{j,t})'}{\sum_{i=1}^n \pi_{i,j}} \end{aligned} \quad (11)$$

The original article can be found online at <https://doi.org/10.1007/s10182-022-00437-9>.

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$$\begin{aligned}
 \mathbb{X}_{(nT) \times (d+1)} &= \begin{pmatrix} \mathbf{x}_1 \\ \dots \\ \mathbf{x}_i \\ \dots \\ \mathbf{x}_n \end{pmatrix} & \mathbf{x}_i_{T \times (d+1)} &= \begin{pmatrix} 1 & 1 & 1 & \dots & 1 \\ 1 & 2 & 2^2 & \dots & 2^d \\ \dots & \dots & \dots & \dots & \dots \\ 1 & t & t^2 & \dots & t^d \\ \dots & \dots & \dots & \dots & \dots \\ 1 & T & T^2 & \dots & T^d \end{pmatrix} \\
 \mathbb{Y}_{(nT) \times K} &= \begin{pmatrix} \mathbf{y}_1 \\ \dots \\ \mathbf{y}_i \\ \dots \\ \mathbf{y}_n \end{pmatrix} & \mathbb{W}_{nT \times nT} &= \begin{pmatrix} \mathbf{1}_{T \times T} \pi_{1,j} & 0 & \dots & 0 \\ \dots & \dots & \dots & \dots \\ 0 & \mathbf{1}_{T \times T} \pi_{i,j} & \dots & 0 \\ \dots & \dots & \dots & \dots \\ 0 & 0 & \dots & \mathbf{1}_{T \times T} \pi_{n,j} \end{pmatrix}
 \end{aligned} \tag{12}$$

This does not influence the results of this work.
 The original article has been corrected.

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