Table S2 Multivariate analysis of variance by three way ANOVA of the weed biomass (WB; n = 8) and weed density (WD; n = 8)

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| --- | --- | --- | --- |
| Source of variables | df | F-value | |
| WB | WD |
| Rotation | 1 | 0.63n.s. | 3.12\* |
| Herbicide | 1 | 8.93\*\* | 1.72n.s. |
| Tillage | 1 | 0.02n.s. | 0.01n.s. |
| Rotation\*Herbicide | 1 | 0.23n.s. | 0.04n.s. |
| Rotation\*Tillage | 1 | 0.01n.s. | 0.02n.s. |
| Herbicide\*Tillage | 1 | 0.03n.s. | 0.01n.s. |
| Rotation\*Herbicide\*Tillage | 1 | 0.02n.s. | 0.07n.s. |

The categorical factors are rotation, herbicide and tillage. Presented are the F-values with the level of significance; \**P*<0.05, \*\**P*<0.01, \*\*\**P*<0.001, n.s.-no significant.