


# Drosophila suzukii in Swiss grape production- Data from a survey on risk management strategies in 2016, 2017, 2018

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Title of data: *Drosophila suzukii* in Swiss grape production - Data from a survey on risk management strategies in 2016,2017,2018

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A survey was conducted with Swiss grape growers with the specific aim to identify risk management strategies taken in response to *Drosophila suzukii* as well as to survey perceived infestation levels and harvest losses. The survey was conducted for the harvest 2016,2017 and 2018. The datasets were then compiled together and a unique ID created for each participant.

In the survey, background information was gathered relating to farmer characteristics (age, gender, successor or no successor) and farm production (farm size, production system, and tenure). The survey also provided insights on information sources used. Risk preferences were elicited using questions on attitude to risk taking in four different domains (production, market and prices, external financing and agriculture in general) (Meuwissen, Huirne et al. 2001). In addition, a simple 11 point Likert scale self-assessment question on risk aversion following Dohmen, Falk et al. (2011) was used. The survey includes for year 2018 questions on locus of control (Abay, Blalock et al. 2017) and self-efficacy (Bandura 2006), measured via Likert scale self-assessment questions. Finally for year 2018, we undertook a contextualized multiple price list following Holt and Laury (2002) in order to measure risk preferences. The survey was conducted online via a platform LIMESURVEY and was distributed in German, French and Italian. We have an unbalanced panel dataset with 777 participants.

Note that the datasets for each of the surveys (i.e. the years 2016, 2017, 2018) was also uploaded individually:

Year 2016: <https://doi.org/10.3929/ethz-b-000238824>

Year 2017: <https://doi.org/10.3929/ethz-b-000282730>

Year 2018: <https://doi.org/10.3929/ethz-b-000328260>

Files included in the zip-folder:

02\_Codebook\_grapes\_paneldata.pdf: Description of the contents, structure and layout of the data collection including the name of the variables, the question text and values for each variable.

03\_Grapes\_paneldata.csv: Survey data with variables. A number of variables such as the email addresses, personal comments and the postal codes were deleted due to confidential reasons.

References:

Abay, K. A., G. Blalock and G. Berhane (2017). "Locus of control and technology adoption in developing country agriculture: Evidence from Ethiopia." *Journal of Economic Behavior & Organization* 143: 98-115.

Bandura, A. (2006). "Guide for constructing self-efficacy scales." *Self-efficacy beliefs of adolescents* 5(1): 307-337.

Dohmen, T., A. Falk, D. Huffman, U. Sunde, J. Schupp and G. G. Wagner (2011). "Individual risk attitudes: Measurement, determinants, and behavioral consequences." *Journal of the European Economic Association* 9(3): 522-550.

Holt, C. A. and S. K. Laury (2002). "Risk Aversion and Incentive Effects." *American Economic Review* 92(5): 1644-1655.

Meuwissen, M. P. M., R. B. M. Huirne and J. B. Hardaker (2001). "Risk and risk management: an empirical analysis of Dutch livestock farmers." *Livestock Production Science* 69(1): 43-53.