

695 **Appendix S7:** Crop habitat composition survey in the study area.

696 Crop habitat composition in the study area was measured in 85 independent locations at
697 different altitudes between 2008 and 2012. The relative area of each crop type (in %) was
698 visually estimated by two observers in a 100-m radius circle around each location. The mean
699 of the two observations was then calculated. The phenological stage of each crop was also
700 recorded.

Elevation	Potato	Broad bean	Corn	Alfalfa	Pasture
2800 m	20.9	13.4	18.4	16.5	30.8
3200 m	24.1	13.3	15.9	12.5	34.2
3600 m	27.3	9.1	6.6	7.6	49.4

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702 **Table S7:** Mean crop composition (%) at three altitudes used to parameterize thermal
703 landscape mapping (see Fig. 2 & 3 in the main document). The number of independent
704 location were N = 43, 25, 17 at 2800, 3200, and 3600 m, respectively.