

## Supplementary Materials

Table S1. Geographic, soil, fertilization, and fore crops data for field experiments.

Location	Geographic coordinates	Type of soil	Year	Pre-crop	Doses of fertilizers kg ha <sup>-1</sup>
Młochów	52° 3' 0" N 20° 46' 7" E	Podzols	2019	rape	36 N, 30 P <sub>2</sub> O <sub>5</sub> , 54 K <sub>2</sub> O 25t/ha composted manure
			2020	oat	36 N, 30 P <sub>2</sub> O <sub>5</sub> , 54 K <sub>2</sub> O 25t/ha composted manure
			2021	oat	34 N, 26 P <sub>2</sub> O <sub>5</sub> , 50 K <sub>2</sub> O 25 t/ha composted manure

Figure S1. Rainfall (total monthly in mm) and temperature (average in monthly °C) during the A) 2019, B) 2020 and C) 2021 potato growing seasons in Młochów.

