

Category	Name	Column	Notes
Paper identification	Ref	A	Reference of the paper
	Doi	B	Doi
	Cat	C	Whether the paper belongs to the “impact” corpus (simulation of grain legume response to climate change in Europe), the “adaptation” corpus (simulation of grain legume response to adaptation strategies under future climate conditions) or both
Crop identification	Crop	D	Crop species
	Sowing_month	E	Sowing month used in the simulation (when specified)
	Irrigation	F	Irrigation use ( <i>irrigated crops</i> / <i>rainfed crops</i> / <i>undifferentiated</i> : mix of irrigated and rainfed yields / <i>unclear</i> : information not available)
Geographical data	Continent	G	Continent name
	Country	H	Country name
	Location	I	<u>For site-based studies</u> : location of the site used for model calibration
	Latitude	J	<u>For site-based studies</u> : coordinates of the site used for model calibration
	Longitude	K	<u>For site-based studies</u> : coordinates of the site used for model calibration
	Scale	L	Scale of the analysis ( <i>spot</i> : site-based simulation / <i>region</i> / <i>country</i> / <i>Europe</i> / <i>world</i> )
Coordinates used to draw figures	Region_map	M	Country or region identifier (ISO country code or NUTS nomenclature)
	Scale_map	N	Representative scale ( <i>country</i> / <i>NUTS1</i> / <i>NUTS2</i> / <i>NUTS3</i> ) used to draw Figures 3 to 5. Due to technical constraints, Ukraine was divided into 2 parts (West and East).
	y_map	O	Coordinates used to locate the paper in Figure 6 (for site-based studies: coordinates of the simulation / for regional studies: midpoint of the study area). To improve figure readability, two spatial points are merged together when close enough.

	x_map	P	Coordinates used to locate the paper in Figure 6 (for site-based studies: coordinates of the simulation / for regional studies: midpoint of the study area). To improve figure readability, two spatial points are merged together when close enough.
Time slices used as baseline and future	Time_period	Q	Categorical variable characterizing the future time slice (" <i>near future</i> ": median point of the future time slice $\leq 2050$ / " <i>far future</i> ": median point of the future time slice $> 2050$ )
	Future_time_slice1	R	Starting year of the future time slice
	Future_time_slice2	S	End of the future time slice
	Baseline_time_slice1	T	Starting year of the baseline time slice
	Baseline_time_slice2	U	End of the baseline time slice
	Future_midpoint	V	Median point of the future time slice
	Baseline_midpoint	W	Median point of the baseline time slice
Climate scenario used	Scenario	X	Name of the climate scenario used
	GCM	Y	Name(s) of the General Circulation Model(s) (GCM) used (when specified) or number of GCM used
	Rainfall_change	Z	<u>For site-based studies</u> : change in precipitation, defined as the ratio of the mean annual precipitation in the future time slice to the mean annual precipitation in the baseline time slice (in %)
	Mean_T_change	AA	<u>For site-based studies</u> : absolute change in mean temperature (in °C)
	Future_CO2	AB	Atmospheric CO <sub>2</sub> concentration in the future time slice (in ppm)
Simulation protocol	Model_name	AC	Name(s) of the model(s) used
	Model_cat	AD	Type(s) of model used (e.g. process-based model, niche model, statistical model)
	Climate_factors	AE	Abiotic and biotic factors included in the model (e.g. temperature, rainfall, CO <sub>2</sub> , pests and diseases)
	Param_assessed	AF	Indicators assessed (e.g. yield, water use efficiency)

	Adapt_tested	AG	Nature of the adaptation strategies tested (e.g. irrigation, change in sowing date)
Impact of climate change	Variable	AH	Variable used in the paper to quantify the impact of climate change (e.g. yield, suitability index or production) (where applicable)
	Unit	AI	Unit
	Baseline_no_adapt	AJ	Yield (or any other variable used) simulated in the baseline time period without adaptation
	CC_no_adapt	AK	Yield (or any other variable used) simulated in the future time period without adaptation
	CC_impact	AL	Impact of climate change on yield (or any other variable used), calculated as the ratio of the yield in the future to the yield in the baseline period
	CC_impact_cat	AM	Categorical variable characterizing the impact of climate change ( <i>negative</i> : <-5% / <i>neutral</i> : [-5%;5%] / <i>positive</i> : > 5%)
Effect of adaptation	Baseline_adapt	AN	Yield (or any other variable used) simulated in the baseline time period with adaptation
	CC_adapt	AO	Yield (or any other variable used) simulated in the future time period with adaptation
	Adapt_impact	AP	Effect of adaptation on yield (or any other variable used), calculated as the ratio of the yield with adaptation to the yield without adaptation
	Adapt_impact_cat	AQ	Categorical variable characterizing the effect of adaptation ( <i>negative</i> : <-5% / <i>neutral</i> : [-5%;5%] / <i>positive</i> : > 5%)
	Adapt_type	AR	Nature of the adaptation strategy tested (e.g. irrigation, change in sowing date)
	No_adapt_treatment	AS	Details on the “no adaptation” treatment (e.g. cultivar used)
	Adapt_treatment	AT	Details on the “adaptation” treatment (e.g. cultivar used)
	Remarks	AU	Additional details on simulated crop management (where applicable)
	Data_source	AV	Figures from which data were extracted