

Supplement of Biogeosciences, 16, 1641–1655, 2019
<https://doi.org/10.5194/bg-16-1641-2019-supplement>
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Supplement of

Estimating the soil N₂O emission intensity of croplands in northwest Europe

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Table S1. Details of the dates (julian day) of management activities (harvest, tillage, planting) and fertiliser application used in the simulations.

Soil Type	Location	Crop	Tillage	Planting	Fertiliser	Splits	Fertiliser Date 1	Fertiliser Amount 1	Fertiliser Date 2	Fertiliser Amount 2	Fertiliser Date 3	Fertiliser Amount 3	Harvest
			(julian day)	(julian day)	(kgNha-1)		(julian day)	(kgNha-1)	(julian day)	(kgNha-1)	(julian day)	(kgNha-1)	(julian day)
SANDS	south	SB	91	94	150	2	96	75	126	75	-	-	238
		WB	285	288	200	2	57	40	88	160	-	-	211
		WW	285	288	220	3	74	40	102	90	130	90	250
		WOSR	212	215	210	2	58	105	86	105	-	-	210
	north	SB	75	78	150	2	80	75	110	75	-	-	258
		WB	285	288	200	2	57	40	88	160	-	-	211
		WW	285	288	220	3	84	40	112	90	140	90	270
		WOSR	212	215	210	2	58	105	86	105	-	-	210
OTHER	south	SB	91	94	130	2	96	65	126	65	-	-	238
		WB	285	288	180	2	57	40	88	140	-	-	211
		WW	285	288	200	3	74	40	102	80	130	80	250
		WOSR	212	215	210	2	58	105	86	105	-	-	210
	north	SB	75	78	130	2	80	65	110	65	-	-	258
		WB	285	288	180	2	57	40	88	140	-	-	211
		WW	285	288	200	3	84	40	112	80	140	80	270
		WOSR	212	215	210	2	58	105	86	105	-	-	210
SALO	south	SB	91	94	130	2	96	65	126	65	-	-	238
		WB	285	288	180	2	57	40	88	140	-	-	211
		WW	285	288	200	3	74	40	102	80	130	80	250
		WOSR	212	215	210	2	58	105	86	105	-	-	210
	north	SB	75	78	130	2	80	65	110	65	-	-	258
		WB	285	288	180	2	57	40	88	140	-	-	211
		WW	285	288	200	3	84	40	112	80	140	80	270
		WOSR	212	215	210	2	58	105	86	105	-	-	210
SHALLOW	south	SB	91	94	150	2	96	75	126	75	-	-	238
		WB	285	288	200	2	57	40	88	160	-	-	211
		WW	285	288	220	3	74	40	102	90	130	90	250
		WOSR	212	215	210	2	58	105	86	105	-	-	210
	north	SB	75	78	150	2	80	75	110	75	-	-	258
		WB	285	288	200	2	57	40	88	160	-	-	211
		WW	285	288	220	3	84	40	112	90	140	90	270
		WOSR	212	215	210	2	58	105	86	105	-	-	210
HUMOSE	south	SB	91	94	80	2	96	40	126	40	-	-	238
		WB	285	288	120	2	87	40	88	80	-	-	211
		WW	285	288	140	3	74	40	102	50	130	50	250
		WOSR	212	215	130	2	58	65	86	65	-	-	210
	north	SB	75	78	80	2	80	40	110	40	-	-	258
		WB	285	288	120	2	87	40	88	80	-	-	211
		WW	285	288	140	3	84	40	112	50	140	50	270
		WOSR	212	215	130	2	58	65	86	65	-	-	210

SB: Spring Barley WB: Winter Barley WW: Winter Wheat WOSR: Winter Oilseed Rape

South - North border is set at 56.64N

SANDS soil type includes soils which are sand, loamy sand or sandy loam to 40 cm depth and are sand or loamy sand between 40 and 80 cm

SALO soil type includes sandy loam and loamy soils

SHALLOW soil type includes soils over impermeable subsoils and those where the parent rock (chalk, limestone or other rock) is within 40 cm of the soil surface

HUMOSE soil type includes soil with 10 and 20% organic matter

OTHER soil type includes all soils that do not fall in any of the other soil types