







Residue management

	Gross margin without measure (€/ha)			Implementation costs (€/ha)					Gross margin with measure (€/ha)			Change in gross margin (€/ha)			Change in gross margin (%)		
	Output (yield x price)	Operating costs	Gross margin	Investment	Operational	Displacement	Avoided	Net cost	High yield impact	Middle yield impact	Low yield impact	High yield impact	Middle yield impact	Low yield impact	High yield impact	Middle yield impact	Low yield impact
Barley																	
Denmark	875	774	101	0	0	26	0	26	76	76	76	-26	-26	-26	-25	-25	-25
Denmark (winter)	1395	327	1068	0	0	69	0	69	999	999	999	-69	-69	-69	-6	-6	-6
Denmark (spring)	1270	283	987	0	0	63	0	63	924	924	924	-63	-63	-63	-6	-6	-6
Estonia	351	265	86	0	0	1	0	1	85	85	85	-1	-1	-1	-1	-1	-1
Finland	492	593	-101	0	0	0	0	0	-102	-102	-102	0	0	0	0	0	0
Germany	874	730	144	0	0	13	0	13	131	131	131	-13	-13	-13	-9	-9	-9
Greece	606	463	142	0	0	30	0	30	112	112	112	-30	-30	-30	-21	-21	-21
Hungary (winter)	502	411	91	0	0	39	0	39	52	52	52	-39	-39	-39	-43	-43	-43
Hungary (spring)	468	390	77	0	0	39	0	39	38	38	38	-39	-39	-39	-51	-51	-51
Ireland	1044	645	399	0	0	122	0	122	277	277	277	-122	-122	-122	-31	-31	-31
Italy	677	504	173	0	0	28	0	28	145	145	145	-28	-28	-28	-16	-16	-16
Lithuania	383	239	143	0	0	1	0	1	143	143	143	-1	-1	-1	0	0	0
Poland	477	369	109	0	0	2	0	2	107	107	107	-2	-2	-2	-2	-2	-2
Spain	426	249	177	0	0	5	0	5	172	172	172	-5	-5	-5	-3	-3	-3
Spain (rainfed)	578	299	279	0	0	113	0	113	166	166	166	-113	-113	-113	-41	-41	-41
Spain (irrigated)	878	462	416	0	0	123	0	123	292	292	292	-123	-123	-123	-30	-30	-30
United Kingdom	1019	731	288	0	0	80	0	80	209	209	209	-80	-80	-80	-28	-28	-28
United Kingdom (winter)	1295	784	511	0	0	208	0	208	304	304	304	-208	-208	-208	-41	-41	-41
United Kingdom (spring)	941	703	238	0	0	144	0	144	95	95	95	-144	-144	-144	-60	-60	-60
Common wheat																	
Denmark (winter)	1665	354	1311	0	0	78	0	78	1234	1234	1234	-78	-78	-78	-6	-6	-6
Denmark (spring)	1199	354	845	0	0	77	0	77	768	768	768	-77	-77	-77	-9	-9	-9
Bulgaria	518	268	250	0	0	1	0	1	249	249	249	-1	-1	-1	0	0	0
Czech Republic	701	493	207	0	0	2	0	2	205	205	205	-2	-2	-2	-1	-1	-1
Denmark	995	781	214	0	0	39	0	39	175	175	175	-39	-39	-39	-18	-18	-18
Estonia	379	321	59	0	0	0	0	0	59	59	59	0	0	0	0	0	0
Finland	544	702	-158	0	0	0	0	0	-158	-158	-158	0	0	0	0	0	0
France	1003	712	291	0	0	9	0	9	282	282	282	-9	-9	-9	-3	-3	-3
Germany	1148	728	420	0	0	5	0	5	415	415	415	-5	-5	-5	-1	-1	-1
Greece	512	407	106	0	0	0	0	0	106	106	106	0	0	0	0	0	0
Hungary	555	403	152	0	0	2	0	2	150	150	150	-2	-2	-2	-1	-1	-1
Hungary (winter)	581	428	153	0	0	33	0	33	120	120	120	-33	-33	-33	-22	-22	-22
Italy	937	620	317	0	0	36	0	36	280	280	280	-36	-36	-36	-12	-12	-12
Latvia	531	432	99	0	0	1	0	1	98	98	98	-1	-1	-1	-1	-1	-1
Lithuania	591	392	198	0	0	1	0	1	198	198	198	-1	-1	-1	0	0	0
Poland	734	489	245	0	0	2	0	2	243	243	243	-2	-2	-2	-1	-1	-1
Poland (winter)	2723	1014	1709	0	0	350	0	350	1359	1359	1359	-350	-350	-350	-20	-20	-20
Poland (spring)	2364	991	1373	0	0	330	0	330	1043	1043	1043	-330	-330	-330	-24	-24	-24
Romania	536	300	236	0	0	3	0	3	233	233	233	-3	-3	-3	-1	-1	-1
Spain	587	299	289	0	0	8	0	8	281	281	281	-8	-8	-8	-3	-3	-3
Spain (rainfed)	563	262	301	0	0	114	0	114	187	187	187	-114	-114	-114	-38	-38	-38
Spain (irrigated)	1028	453	574	0	0	104	0	104	471	471	471	-104	-104	-104	-18	-18	-18
Sweden	770	663	107	0	0	5	0	5	101	101	101	-5	-5	-5	-5	-5	-5
United Kingdom	1200	821	379	0	0	30	0	30	349	349	349	-30	-30	-30	-8	-8	-8
United Kingdom (winter)	1528	871	657	0	0	208	0	208	449	449	449	-208	-208	-208	-32	-32	-32
Durum wheat																	
France	996	776	220	0	0	6	0	6	214	214	214	-6	-6	-6	-3	-3	-3
Greece	429	438	-9	0	0	1	0	1	-10	-10	-10	-1	-1	-1	-14	-14	-14
Italy	820	514	306	0	0	20	0	20	286	286	286	-20	-20	-20	-7	-7	-7
Spain	506	309	197	0	0	2	0	2	195	195	195	-2	-2	-2	-1	-1	-1
Grain maize																	
France	1425	1074	350	0	0	5	0	5	345	345	345	-5	-5	-5	-1	-1	-1
Germany	1577	1007	570	0	0	3	0	3	568	568	568	-3	-3	-3	0	0	0
Greece	2029	1172	858	0	0	2	0	2	856	856	856	-2	-2	-2	0	0	0
Hungary	917	615	301	0	0	2	0	2	300	300	300	-2	-2	-2	-1	-1	-1
Hungary (central region)	923	568	355	0	0	74	0	74	281	281	281	-74	-74	-74	-21	-21	-21
Italy	1712	926	786	0	0	14	0	14	772	772	772	-14	-14	-14	-2	-2	-2
Italy (Tuscany)	1375	1004	371	0	0	0	0	0	371	371	371	0	0	0	0	0	0
Poland	959	549	410	0	0	1	0	1	409	409	409	-1	-1	-1	0	0	0
Portugal	1629	1016	613	0	0	7	0	7	606	606	606	-7	-7	-7	-1	-1	-1
Romania	812	401	411	0	0	4	0	4	407	407	407	-4	-4	-4	-1	-1	-1
Slovakia	1012	776	236	0	0	5	0	5	231	231	231	-5	-5	-5	-2	-2	-2
Spain	1796	822	974	0	0	2	0	2	972	972	972	-2	-2	-2	0	0	0

Co-benefits

Type of benefit	Size of effect	Type of effect
Erosion protection		Improved soil structure and cover to prevent wind and water erosion
Promote soil biodiversity		Promotes presence of earthworms and improves soil fertility
Promote above-ground biodiversity		Improved soil fertility contributes to crop growth
Reduce soil emissions (nitrous oxide and ammonia)		The impact on both types of emissions depends upon the residue's C:N ratio
Prevent nutrient leaching (N, P)	 	The impact on nitrate leaching also depends upon the residue's C:N ratio but there is no effect on P leaching

Legend: ++ maximum positive effect, + positive effect, 0 no effect, - negative effect, -- maximum negative effect