











Cover crops

	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	100	22	0	0	122	149	-21	-106	48	-122	-207	47	-121	-205
Denmark (winter)	1395	327	1068	100	22	81	0	203	1130	865	732	62	-203	-336	6	-19	-31
Denmark (spring)	1270	283	987	100	22	0	0	122	1106	865	744	119	-122	-243	12	-12	-25
Estonia	351	265	86	92	21	0	0	113	43	-27	-62	-43	-113	-147	-50	-131	-172
Finland	492	593	-101	92	21	0	0	113	-116	-214	-263	-14	-113	-162	-14	-111	-159
Germany	874	730	144	92	21	0	0	113	203	31	-55	60	-113	-199	42	-78	-138
Greece	606	463	142	92	21	0	0	113	145	30	-28	3	-113	-170	2	-79	-119
Ireland	1044	645	399	92	21	0	0	113	471	286	194	72	-113	-205	18	-28	-51
Italy	764	437	327	139	30	427	0	596	-123	-269	-342	-450	-596	-669	-138	-182	-205
Lithuania	383	239	143	92	21	0	0	113	107	31	-7	-36	-113	-151	-25	-78	-105
Poland	477	369	109	92	21	0	0	113	91	-4	-51	-17	-113	-160	-16	-104	-147
Spain	426	249	177	31	0	0	-16	15	246	162	120	70	-15	-57	39	-8	-32
United Kingdom	1019	731	288	100	22	0	0	122	354	166	72	66	-122	-216	23	-42	-75
United Kingdom (winter)	1295	784	511	100	22	273	0	395	334	116	7	-178	-395	-504	-35	-77	-99
United Kingdom (spring)	941	703	238	100	22	0	0	122	276	116	36	38	-122	-202	16	-51	-85
Common wheat																	
Bulgaria	518	268	250	92	21	0	0	113	241	137	86	-9	-113	-164	-4	-45	-66
Czech Republic	701	493	207	92	21	0	0	113	234	95	25	27	-113	-182	13	-54	-88
Denmark	995	781	214	100	22	0	0	122	283	92	-4	69	-122	-218	32	-57	-102
Denmark (winter)	1665	354	1311	100	22	466	0	588	1041	723	565	-271	-588	-747	-21	-45	-57
Denmark (spring)	1199	354	845	100	22	0	0	122	948	723	611	102	-122	-234	12	-14	-28
Estonia	379	321	59	92	21	0	0	113	22	-54	-92	-37	-113	-150	-62	-192	-256
Finland	544	702	-158	92	21	0	0	113	-162	-270	-325	-4	-113	-167	-2	-71	-106
France	1003	712	291	92	21	0	0	113	377	178	79	86	-113	-212	30	-39	-73
Germany	1148	728	420	92	21	0	0	113	536	307	193	116	-113	-227	28	-27	-54
Greece	512	407	106	92	21	0	0	113	96	-7	-58	-10	-113	-164	-9	-107	-155
Hungary	555	403	152	92	21	0	0	113	150	39	-16	-2	-113	-168	-1	-74	-111
Italy	1024	598	426	139	30	427	0	596	25	-170	-268	-401	-596	-694	-94	-140	-163
Latvia	531	432	99	92	21	0	0	113	92	-14	-67	-7	-113	-165	-7	-114	-168
Lithuania	591	392	198	92	21	0	0	113	204	86	27	6	-113	-172	3	-57	-86
Poland	734	489	245	92	21	0	0	113	279	132	59	34	-113	-186	14	-46	-76
Poland (spring)	2364	991	1373	31	180	0	0	211	1568	1162	958	196	-211	-414	14	-15	-30
Romania	536	300	236	92	21	0	0	113	230	123	70	-6	-113	-166	-3	-48	-70
Spain	587	299	289	31	0	0	-18	13	392	276	218	103	-13	-71	36	-5	-25
Sweden	770	663	107	92	21	0	0	113	147	-6	-82	40	-113	-189	38	-106	-177
United Kingdom	1200	821	379	100	22	0	0	122	491	257	140	112	-122	-239	30	-32	-63
Durum wheat																	
France	996	776	220	92	21	0	0	113	306	107	8	86	-113	-212	39	-51	-96
Greece	429	438	-9	92	21	0	0	113	-36	-121	-164	-27	-113	-155	-304	-1267	-1748
Italy	734	440	295	139	30	427	0	596	-159	-302	-373	-454	-596	-667	-154	-202	-227
Spain	506	309	197	31	0	0	-15	16	282	181	131	85	-16	-66	43	-8	-34
Grain maize																	
France	1425	1074	350	92	21	0	0	113	522	238	96	171	-113	-254	49	-32	-73
Germany	1577	1007	570	92	21	0	0	113	773	458	301	202	-113	-270	35	-20	-47
Greece	2029	1172	858	92	21	0	0	113	1151	745	542	293	-113	-315	34	-13	-37
Hungary	917	615	301	92	21	0	0	113	372	189	97	70	-113	-204	23	-37	-68
Italy	1712	926	786	139	30	427	0	596	530	190	20	-256	-596	-766	-33	-76	-97
Italy (Tuscany)	1375	1004	371	139	30	427	0	596	50	-225	-362	-321	-596	-734	-86	-161	-198
Poland	959	549	410	92	21	0	0	113	489	297	201	79	-113	-208	19	-27	-51
Portugal	1629	1016	613	92	21	0	0	113	825	501	339	212	-113	-275	35	-18	-45
Romania	812	401	411	92	21	0	0	113	460	298	218	49	-113	-193	12	-27	-47
Slovakia	1012	776	236	92	21	0	0	113	325	124	23	89	-113	-213	38	-48	-90
Spain	1796	822	974	31	0	0	-43	-12	1344	986	806	370	12	-168	38	1	-17
Spain (irrigated)	2190	1107	1083	37	0	0	-69	-32	1553	1115	896	470	32	-187	43	3	-17

Co-benefits

Type of benefit	Size of effect		Type of effect
	LB	NLB	
Erosion protection			Reduced soil erosion and run-off to water bodies (positively impacting water quality)
Prevent nutrient leaching (N, P)			Crop scavenges N from the soil and makes it available for the following crop, contributing to reduced nitrate leaching
Promote soil biodiversity			Increase in soil organisms and activity
Promote above ground biodiversity			Provides habitats and potentially enhances biological control of pests and diseases
Reduce soil emissions			Potential reduction in ammonia emissions if managed effectively, although incorporation of the cover crop may also result in nitrous oxide emissions

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

LB: Legume-based cover/catch crop; **NLB:** Non-legume-based cover/catch crop