

## Summary of Moderator Effects on Key Response Variables

Response Variable	Moderator Type	Moderator Level	n studies	n observations	Statistics			Unique_studies
					Estimate	P-Value	Significance	
Biodiversity	Tree Type	Biomass	9	180	0.096	0.062	.	c(1, 4, 7, 9, 15, 18, 25, 29, 35)
Biodiversity	Tree Type	Fruit, nut and other trees	9	180	0.070	0.388	NS	c(1, 4, 7, 9, 15, 18, 25, 29, 35)
Biodiversity	Tree Type	Timber	9	180	0.084	0.104	NS	c(1, 4, 7, 9, 15, 18, 25, 29, 35)
Biodiversity	Crop Type	Cereal	9	180	0.025	0.539	NS	c(1, 4, 7, 9, 15, 18, 25, 29, 35)
Biodiversity	Crop Type	Legume	9	180	0.190	0.001	**	c(1, 4, 7, 9, 15, 18, 25, 29, 35)
Biodiversity	Age System	Mature	8	166	0.065	0.169	NS	c(1, 4, 7, 15, 18, 25, 29, 35)
Biodiversity	Age System	Medium	8	166	0.013	0.783	NS	c(1, 4, 7, 15, 18, 25, 29, 35)
Biodiversity	Age System	Young	8	166	0.167	0.001	***	c(1, 4, 7, 15, 18, 25, 29, 35)
Biodiversity	Season	Summer	9	180	0.155	< 0.001	***	c(1, 4, 7, 9, 15, 18, 25, 29, 35)
Biodiversity	Season	Winter	9	180	-0.006	0.893	NS	c(1, 4, 7, 9, 15, 18, 25, 29, 35)
Biodiversity	Soil Texture	Clay	9	180	0.063	0.24	NS	c(1, 4, 7, 9, 15, 18, 25, 29, 35)
Biodiversity	Soil Texture	Sand	9	180	0.111	0.148	NS	c(1, 4, 7, 9, 15, 18, 25, 29, 35)
Biodiversity	Soil Texture	Silt	9	180	0.161	0.037	*	c(1, 4, 7, 9, 15, 18, 25, 29, 35)

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Response Variable	Moderator Type	Moderator Level	n studies	n observations	Statistics			Unique_studies
					Estimate	P-Value	Significance	
Crop yield	Tree Type	Biomass	17	279	-0.014	0.277	NS	c(2, 3, 10, 11, 12, 13, 14, 16, 20, 25, 26, 30, 31, 33, 34, 36, 37)
Crop yield	Tree Type	Fruit, nut and other trees	17	279	0.018	0.242	NS	c(2, 3, 10, 11, 12, 13, 14, 16, 20, 25, 26, 30, 31, 33, 34, 36, 37)
Crop yield	Tree Type	Timber	17	279	0.007	0.62	NS	c(2, 3, 10, 11, 12, 13, 14, 16, 20, 25, 26, 30, 31, 33, 34, 36, 37)
Crop yield	Crop Type	Cereal	17	279	-0.004	0.771	NS	c(2, 3, 10, 11, 12, 13, 14, 16, 20, 25, 26, 30, 31, 33, 34, 36, 37)
Crop yield	Crop Type	Legume	17	279	-0.020	0.226	NS	c(2, 3, 10, 11, 12, 13, 14, 16, 20, 25, 26, 30, 31, 33, 34, 36, 37)
Crop yield	Crop Type	Tuber, root and other crops	17	279	-0.069	< 0.001	***	c(2, 3, 10, 11, 12, 13, 14, 16, 20, 25, 26, 30, 31, 33, 34, 36, 37)
Crop yield	Age System	Mature	17	279	-0.042	0.057	.	c(2, 3, 10, 11, 12, 13, 14, 16, 20, 25, 26, 30, 31, 33, 34, 36, 37)
Crop yield	Age System	Medium	17	279	-0.011	0.43	NS	c(2, 3, 10, 11, 12, 13, 14, 16, 20, 25, 26, 30, 31, 33, 34, 36, 37)
Crop yield	Age System	Young	17	279	0.028	0.082	.	c(2, 3, 10, 11, 12, 13, 14, 16, 20, 25, 26, 30, 31, 33, 34, 36, 37)
Crop yield	Season	Summer	17	279	0.012	0.306	NS	c(2, 3, 10, 11, 12, 13, 14, 16, 20, 25, 26, 30, 31, 33, 34, 36, 37)
Crop yield	Season	Winter	17	279	-0.015	0.201	NS	c(2, 3, 10, 11, 12, 13, 14, 16, 20, 25, 26, 30, 31, 33, 34, 36, 37)
Crop yield	Soil Texture	Clay	17	279	0.000	0.995	NS	c(2, 3, 10, 11, 12, 13, 14, 16, 20, 25, 26, 30, 31, 33, 34, 36, 37)

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Crop yield	Soil Texture	Sand	17	279	-0.002	0.872	NS	c(2, 3, 10, 11, 12, 13, 14, 16, 20, 25, 26, 30, 31, 33, 34, 36, 37)
Crop yield	Soil Texture	Silt	17	279	-0.009	0.443	NS	c(2, 3, 10, 11, 12, 13, 14, 16, 20, 25, 26, 30, 31, 33, 34, 36, 37)
Water quality	Tree Type	Biomass	1	130	0.016	0.28	NS	5
Water quality	Tree Type	Timber	1	130	0.015	0.303	NS	5
Water quality	Crop Type	Cereal	1	130	-0.001	0.981	NS	5
Water quality	Crop Type	Legume	1	130	0.021	0.283	NS	5
Water quality	Age System	Medium	1	130	0.001	0.947	NS	5
Water quality	Age System	Young	1	130	0.030	0.169	NS	5
Water quality	Season	NA	1	130	NA	NA	NA	5
Water quality	Soil Texture	Clay	1	130	0.015	0.303	NS	5
Water quality	Soil Texture	Sand	1	130	0.016	0.28	NS	5
Pest and Disease	Tree Type	Biomass	3	49	-0.454	< 0.001	***	c(6, 17, 29)
Pest and Disease	Tree Type	Fruit, nut and other trees	3	49	-0.040	0.042	*	c(6, 17, 29)
Pest and Disease	Tree Type	Timber	3	49	0.265	< 0.001	***	c(6, 17, 29)

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Response Variable	Moderator Type	Moderator Level	n studies	n observations	Statistics			Unique_studies
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Pest and Disease	Crop Type	Cereal	3	49	-0.186	0.166	NS	c(6, 17, 29)
Pest and Disease	Crop Type	Legume	3	49	0.115	0.485	NS	c(6, 17, 29)
Pest and Disease	Crop Type	Tuber, root and other crops	3	49	-0.639	< 0.001	***	c(6, 17, 29)
Pest and Disease	Age System	Mature	3	49	0.324	0.25	NS	c(6, 17, 29)
Pest and Disease	Age System	Medium	3	49	-0.324	0.248	NS	c(6, 17, 29)
Pest and Disease	Age System	Young	3	49	0.265	0.636	NS	c(6, 17, 29)
Pest and Disease	Season	Summer	3	49	0.182	0.389	NS	c(6, 17, 29)
Pest and Disease	Season	Winter	3	49	-0.464	0.029	*	c(6, 17, 29)
Pest and Disease	Soil Texture	Clay	3	49	0.034	0.668	NS	c(6, 17, 29)
Pest and Disease	Soil Texture	Silt	3	49	-0.454	0.004	**	c(6, 17, 29)
Soil quality	Tree Type	Biomass	11	251	-0.050	0.304	NS	c(8, 14, 19, 21, 23, 24, 25, 27, 28, 32, 33)
Soil quality	Tree Type	Fruit, nut and other trees	11	251	0.303	< 0.001	***	c(8, 14, 19, 21, 23, 24, 25, 27, 28, 32, 33)
Soil quality	Tree Type	Timber	11	251	0.051	0.537	NS	c(8, 14, 19, 21, 23, 24, 25, 27, 28, 32, 33)

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Response Variable	Moderator Type	Moderator Level	n studies	n observations	Statistics			Unique_studies
					Estimate	P-Value	Significance	
Soil quality	Crop Type	Cereal	11	251	0.032	0.05	.	c(8, 14, 19, 21, 23, 24, 25, 27, 28, 32, 33)
Soil quality	Crop Type	Legume	11	251	0.035	0.037	*	c(8, 14, 19, 21, 23, 24, 25, 27, 28, 32, 33)
Soil quality	Crop Type	Tuber, root and other crops	11	251	0.010	0.863	NS	c(8, 14, 19, 21, 23, 24, 25, 27, 28, 32, 33)
Soil quality	Age System	Mature	11	251	-0.095	0.13	NS	c(8, 14, 19, 21, 23, 24, 25, 27, 28, 32, 33)
Soil quality	Age System	Medium	11	251	0.000	0.998	NS	c(8, 14, 19, 21, 23, 24, 25, 27, 28, 32, 33)
Soil quality	Age System	Young	11	251	0.259	< 0.001	***	c(8, 14, 19, 21, 23, 24, 25, 27, 28, 32, 33)
Soil quality	Season	Summer	11	251	0.023	0.18	NS	c(8, 14, 19, 21, 23, 24, 25, 27, 28, 32, 33)
Soil quality	Season	Winter	11	251	0.059	0.067	.	c(8, 14, 19, 21, 23, 24, 25, 27, 28, 32, 33)
Soil quality	Soil Texture	Clay	11	251	0.035	0.035	*	c(8, 14, 19, 21, 23, 24, 25, 27, 28, 32, 33)
Soil quality	Soil Texture	Sand	11	251	0.033	0.047	*	c(8, 14, 19, 21, 23, 24, 25, 27, 28, 32, 33)
Soil quality	Soil Texture	Silt	11	251	0.000	0.993	NS	c(8, 14, 19, 21, 23, 24, 25, 27, 28, 32, 33)
Greenhouse gas emission	Tree Type	Biomass	2	97	0.011	0.862	NS	c(11, 22)

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Response Variable	Moderator Type	Moderator Level	n studies	n observations	Statistics			Unique_studies
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Greenhouse gas emission	Tree Type	Fruit, nut and other trees	2	97	0.009	0.87	NS	c(11, 22)
Greenhouse gas emission	Crop Type	Cereal	2	97	0.005	< 0.001	***	c(11, 22)
Greenhouse gas emission	Crop Type	Tuber, root and other crops	2	97	-0.082	< 0.001	***	c(11, 22)
Greenhouse gas emission	Age System	Mature	2	97	0.007	< 0.001	***	c(11, 22)
Greenhouse gas emission	Age System	Medium	2	97	-0.041	< 0.001	***	c(11, 22)
Greenhouse gas emission	Season	NA	2	97	NA	NA	NA	c(11, 22)
Greenhouse gas emission	Soil Texture	Sand	2	97	0.013	< 0.001	***	c(11, 22)
Greenhouse gas emission	Soil Texture	Silt	2	97	0.069	< 0.001	***	c(11, 22)
Product quality	Tree Type	Biomass	5	107	-0.022	0.047	*	c(12, 20, 25, 26, 34)
Product quality	Tree Type	Fruit, nut and other trees	5	107	-0.013	0.295	NS	c(12, 20, 25, 26, 34)
Product quality	Tree Type	Timber	5	107	-0.041	0.148	NS	c(12, 20, 25, 26, 34)
Product quality	Crop Type	Cereal	5	107	-0.020	0.02	*	c(12, 20, 25, 26, 34)
Product quality	Crop Type	Legume	5	107	-0.023	0.055	.	c(12, 20, 25, 26, 34)

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Product quality	Crop Type	Tuber, root and other crops	5	107	-0.014	0.259	NS	c(12, 20, 25, 26, 34)
Product quality	Age System	Mature	5	107	-0.020	0.049	*	c(12, 20, 25, 26, 34)
Product quality	Age System	Young	5	107	-0.021	0.024	*	c(12, 20, 25, 26, 34)
Product quality	Season	Summer	5	107	-0.015	0.154	NS	c(12, 20, 25, 26, 34)
Product quality	Season	Winter	5	107	-0.022	0.022	*	c(12, 20, 25, 26, 34)
Product quality	Soil Texture	Clay	5	107	-0.017	0.263	NS	c(12, 20, 25, 26, 34)
Product quality	Soil Texture	Sand	5	107	-0.031	0.051	.	c(12, 20, 25, 26, 34)
Product quality	Soil Texture	Silt	5	107	-0.021	0.206	NS	c(12, 20, 25, 26, 34)