Table S1. Phosphorus content of the above-ground biomass of barley (g kg^{-1} dry matter).

Growth Stage of Barley	Plant Part	Water Supply		Sowing Type		Water Supply x Sowing Type			
		OW	LW	BP	BM	BP-OW	BM-OW	BP-LW	BM-LW
Leaf development	shoots	6.45	6.03	6.20	6.28	6.40	6.50	6.00	6.07
Tillering	shoots	4.35	4.03	4.23	4.15	4.43	4.27	4.03	4.03
Stem elongation	leaves	3.70	3.78	3.78	3.70	3.77	3.63	3.80	3.77
	stems	4.57	4.35	4.50	4.42	4.60	4.53	4.40	4.30
Heading	leaves	2.95	3.32	3.10	3.17	2.97	2.93	3.23	3.40
	stems	4.13	3.85	3.92	4.07	3.97	4.30	3.87	3.83
	spikes	5.60	5.60	5.48	5.72	5.67	5.53	5.30	5.90
Ripening	leaves	2.13	2.83	2.37	2.60	2.03	2.22	2.70	2.97
	stems	3.02	3.62	3.18	3.45	2.77	3.27	3.60	3.63
	spikes	7.40	8.00	7.63	7.77	7.43	7.37	7.83	8.17

OW – optimal water supply, LW – water supply reduced by 50%; BP – barley as a single species, BM – barley in a mixture with rye-grass; no significant differences at $p<0.05$.

Table S2. Phosphorus content of the above-ground biomass of rye-grass (g kg^{-1} dry matter).

Growth Stage of Barley	Plant Part	Water Supply		Sowing Type		Water Supply x Sowing Type			
		OW	LW	RP	RM	RP-OW	RM-OW	RP-LW	RM-LW
Leaf development	shoots	6.73	6.22	6.72	6.20	7.10	6.37	6.33	6.10
Tillering	shoots	4.93	4.53	5.17	4.30	5.47	4.40	4.87	4.20
Stem elongation	leaves	4.68	4.73	4.80	4.58	4.77	4.60	4.90	4.57
	stems	5.72	5.18	5.82	5.08	5.80	5.63	5.83	4.53
Heading	leaves	4.47	4.28	4.08	4.67	4.03	4.90	4.13	4.43
	stems	4.67	5.00	4.48	5.18	4.13	5.20	4.83	5.17
Ripening	leaves	4.53	4.62	4.40	4.78	4.40	4.67	4.33	4.90
	stems	4.00	4.47	3.90	4.57	3.53	4.47	4.27	4.67

OW – optimal water supply, LW – water supply reduced by 50%; RP – rye-grass as a single species, RM –rye-grass in a mixture with barley; no significant differences at $p<0.05$.