

Tables supplementing Final Author comments

Table1

FPZ	Units	Gravel	Phalaris	Willow bush	Mixed forest	Willow forest	Pasture
Species diversity		55.0 ± 13.6 ^{bc}	41.5 ± 11.2 ^c	79.8 ± 8.8 ^a	50.8 ± 4.5 ^{bc}	41.5 ± 3.1 ^c	67.7 ± 3.5 ^{ab}
pH		7.6 ± 0.1 ^a	7.4 ± 0.1 ^a	7.5 ± 0.0 ^a	7.5 ± 0.0 ^a	7.4 ± 0.0 ^a	7.5 ± 0.0 ^a
Sand	g/kg	806 ± 52 ^a	660 ± 17 ^{ab}	442 ± 90 ^{bc}	378 ± 57 ^c	245 ± 40 ^d	651 ± 69 ^{ab}
Clay	g/kg	53 ± 13 ^d	83 ± 36 ^{bcd}	117 ± 18 ^{abc}	148 ± 18 ^{ab}	177 ± 24 ^a	78 ± 16 ^{cd}
Inorganic C	CaCO ₃ %	355 ± 25 ^b	385 ± 18 ^{ab}	408 ± 5 ^a	390 ± 6 ^a	390 ± 3 ^a	382 ± 7 ^{ab}
Organic C	gC/kgsoil	10.1 ± 3.7 ^c	16.3 ± 5.8 ^{abc}	17.1 ± 3.2 ^{abc}	21.4 ± 3.6 ^{ab}	24.8 ± 1.5 ^a	12.9 ± 2.9 ^{bc}
Total N	gN/kgsoil	0.7 ± 0.2 ^c	1.0 ± 0.4 ^{bc}	1.1 ± 0.3 ^{abc}	1.6 ± 0.3 ^{ab}	1.8 ± 0.1 ^a	0.9 ± 0.2 ^{bc}
C:N		15.2 ± 0.5 ^{ab}	16.2 ± 1.6 ^a	15.2 ± 0.7 ^{ab}	13.4 ± 0.6 ^b	14.0 ± 0.2 ^b	14.0 ± 0.4 ^b
Available P	mgP/kgsoil	24.6 ± 11.1 ^{ab}	35.9 ± 10.1 ^a	16.7 ± 5.5 ^b	14.2 ± 4.5 ^b	22.3 ± 7.6 ^{ab}	8.3 ± 4.5 ^b

Table 2

		GRAVEL	GRASS	WILLOW BUSH	MIXED FOREST	WILLOW FOREST	PASTURE
Maximum Elevation within the plots ¹	msl	373.0	373.4	373.6	374.9	372.5	374.7
Minimum elevation within the plots ¹	msl	371.8	372.5	372.5	373.6	371.6	374.2
Minimum river discharge for flooding lowest lying plot ²	m ³ s ⁻¹	75	125	150	650	400	400
Minimum river discharge for flooding highest lying plot ²	m ³ s ⁻¹	180	250	270	>800	400	400
Flooding frequency ³	time/year	> 10	> 10	4 - 6	1 - 2	1 - 2 ⁴	1 - 2
Flooding duration per event ³	days	< 1 to 14	< 1 to 14	≤ 1	< 1	< 1 ⁴	< 1

¹ as measured in May 2010.

² estimated from inundation maps produced by digital terrain modeling based on river cross section measurements

³ approximated using the river discharge data for the years 2007 to 2009 and the minimum river discharge for flooding half of the plots within an FPZ

⁴ in WILLOW FOREST more and longer inundation events can occur due to ponding of precipitation or delayed drainage