

Supplement S2

Recovery dynamics of wetland vegetation along a hydrological gradient in an agriculturally used inland valley in Uganda

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71 days after disturbance
Dominance of annual species

<u>Main species</u>	<u>Life form</u>	<u>Cover (%)</u>
<i>Cyperus difformis</i>	OA	30
<i>Ageratum conyzoides</i>	OA	25
<i>Cyperus distans</i>	FA	15
<i>Kyllinga odorata</i>	TP	10
<i>Ludwigia abyssinica</i>	FA	5



220 days after disturbance
Increase of perennial grasses

<u>Main species</u>	<u>Life form</u>	<u>Cover (%)</u>
<i>Ageratum conyzoides</i>	OA	25
<i>Cyperus denudatus</i>	RP	20
<i>Panicum maximum</i>	TP	15
<i>Centella asiatica</i>	RP	10
<i>Sacciolepis indica</i>	OA	10



400 days after disturbance
Dominance of perennial grasses and sedges

<u>Main species</u>	<u>Life form</u>	<u>Cover (%)</u>
<i>Panicum maximum</i>	TP	50
<i>Fuirena pubescens</i>	TP	15
<i>Ludwigia octovalvis</i>	TP	10
<i>Leersia hexandra</i>	RP	10
<i>Chamaecrista mimosoides</i>	FA	8



691 days after disturbance
Increase of reeds and woody plants

<u>Main species</u>	<u>Life form</u>	<u>Cover (%)</u>
<i>Panicum maximum</i>	TP	60
<i>Ludwigia abyssinica</i>	FA	25
<i>Cyperus latifolius</i>	RD	5
<i>Leersia hexandra</i>	RP	5
<i>Desmodium salicifolium</i> <i>var. densiflorum</i>	PP	2

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Pictures from the mid-valley zone (3rd repetition)

	25.11.2014 71 days after disturbance Dominance of annual species <table> <tr> <th><u>Main species</u></th> <th><u>Life form</u></th> <th><u>Cover (%)</u></th> </tr> <tr> <td><i>Cyperus difformis</i></td> <td>OA</td> <td>20</td> </tr> <tr> <td><i>Cyperus distans</i></td> <td>FA</td> <td>10</td> </tr> <tr> <td><i>Leersia hexandra</i></td> <td>RP</td> <td>10</td> </tr> <tr> <td><i>Ludwigia abyssinica</i></td> <td>FA</td> <td>8</td> </tr> <tr> <td><i>Fuirena pubescens</i></td> <td>TP</td> <td>5</td> </tr> </table>	<u>Main species</u>	<u>Life form</u>	<u>Cover (%)</u>	<i>Cyperus difformis</i>	OA	20	<i>Cyperus distans</i>	FA	10	<i>Leersia hexandra</i>	RP	10	<i>Ludwigia abyssinica</i>	FA	8	<i>Fuirena pubescens</i>	TP	5
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	22.04.2015 220 days after disturbance Dominance of perennial grasses and reeds <table> <tr> <th><u>Main species</u></th> <th><u>Life form</u></th> <th><u>Cover (%)</u></th> </tr> <tr> <td><i>Cyperus latifolius</i></td> <td>RD</td> <td>55</td> </tr> <tr> <td><i>Digitaria abyssinica</i></td> <td>RP</td> <td>10</td> </tr> <tr> <td><i>Leersia hexandra</i></td> <td>RP</td> <td>10</td> </tr> <tr> <td><i>Paspalum scrobiculatum</i></td> <td>FA</td> <td>10</td> </tr> <tr> <td><i>Ludwigia abyssinica</i></td> <td>FA</td> <td>5</td> </tr> </table>	<u>Main species</u>	<u>Life form</u>	<u>Cover (%)</u>	<i>Cyperus latifolius</i>	RD	55	<i>Digitaria abyssinica</i>	RP	10	<i>Leersia hexandra</i>	RP	10	<i>Paspalum scrobiculatum</i>	FA	10	<i>Ludwigia abyssinica</i>	FA	5
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	20.10.2015 400 days after disturbance Increase of shrubs <table> <tr> <th><u>Main species</u></th> <th><u>Life form</u></th> <th><u>Cover (%)</u></th> </tr> <tr> <td><i>Leersia hexandra</i></td> <td>RP</td> <td>30</td> </tr> <tr> <td><i>Fuirena pubescens</i></td> <td>TP</td> <td>15</td> </tr> <tr> <td><i>Cyperus latifolius</i></td> <td>RD</td> <td>15</td> </tr> <tr> <td><i>Ludwigia abyssinica</i></td> <td>FA</td> <td>15</td> </tr> <tr> <td><i>Mimosa pigra</i></td> <td>PP</td> <td>10</td> </tr> </table>	<u>Main species</u>	<u>Life form</u>	<u>Cover (%)</u>	<i>Leersia hexandra</i>	RP	30	<i>Fuirena pubescens</i>	TP	15	<i>Cyperus latifolius</i>	RD	15	<i>Ludwigia abyssinica</i>	FA	15	<i>Mimosa pigra</i>	PP	10
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Life forms (Behn et al. 2022): OA = Obligate annual, FA = Facultative annual, RP = Reptant plants, TP = Tussock plants, RD = Reed plant, CP = Climbing plant, PP = Phanerophyte

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Pictures from the riparian zone (4th repetition)

	25.11.2014 71 days after disturbance Dominance of annual species <table> <tr> <th><u>Main species</u></th> <th><u>Life form</u></th> <th><u>Cover (%)</u></th> </tr> <tr> <td><i>Cyperus difformis</i></td> <td>OA</td> <td>95</td> </tr> <tr> <td><i>Leersia hexandra</i></td> <td>RP</td> <td>10</td> </tr> <tr> <td><i>Panicum subalbidum</i></td> <td>FA</td> <td>5</td> </tr> <tr> <td><i>Commelina diffusa</i></td> <td>OA</td> <td>3</td> </tr> <tr> <td><i>Ludwigia abyssinica</i></td> <td>FA</td> <td>3</td> </tr> </table>	<u>Main species</u>	<u>Life form</u>	<u>Cover (%)</u>	<i>Cyperus difformis</i>	OA	95	<i>Leersia hexandra</i>	RP	10	<i>Panicum subalbidum</i>	FA	5	<i>Commelina diffusa</i>	OA	3	<i>Ludwigia abyssinica</i>	FA	3
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Pictures from the riparian zone (reference plots 1 - 4)



22.10.2015

<u>Main species</u>	<u>Life form</u>	<u>Cover (%)</u>
<i>Cyperus papyrus</i>	RD	85
<i>Adenostemma viscosum</i>	OA	5
<i>Desmodium salicifolium</i>	CP	3
<i>Melanthera scandens</i>	CP	2
<i>Panicum hymenochilum</i>	OA	2



22.10.2015

<u>Main species</u>	<u>Life form</u>	<u>Cover (%)</u>
<i>Cyperus papyrus</i>	RD	60
<i>Cyclosorus interruptus</i>	TP	15
<i>Triumfetta brachyceras</i>	PP	10
<i>Ipomoea cairica</i>	CP	5
<i>Desmodium salicifolium</i>	CP	5



22.10.2015

<u>Main species</u>	<u>Life form</u>	<u>Cover (%)</u>
<i>Cyperus papyrus</i>	RD	75
<i>Stephania abyssinica</i>	CP	15
<i>Desmodium salicifolium</i>	CP	10
<i>Cyclosorus interruptus</i>	TP	10
<i>Mimosa pigra</i>	PP	5



23.10.2015

<u>Main species</u>	<u>Life form</u>	<u>Cover (%)</u>
<i>Cyperus papyrus</i>	RD	75
<i>Cyclosorus interruptus</i>	TP	5
<i>Desmodium salicifolium</i>	CP	5
<i>Triumfetta brachyceras</i>	PP	5
<i>Mimosa pigra</i>	PP	5

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Pictures from the riparian zone (reference plots 5 - 7)

	23.10.2015	<table> <tr> <th><u>Main species</u></th><th><u>Life form</u></th><th><u>Cover (%)</u></th></tr> <tr> <td><i>Cyperus papyrus</i></td><td>RD</td><td>65</td></tr> <tr> <td><i>Cyclosorus interruptus</i></td><td>TP</td><td>15</td></tr> <tr> <td><i>Desmodium salicifolium</i></td><td>CP</td><td>5</td></tr> <tr> <td><i>Leersia hexandra</i></td><td>RP</td><td>5</td></tr> <tr> <td><i>Pouzolzia parasitica</i></td><td>TP</td><td>3</td></tr> </table>	<u>Main species</u>	<u>Life form</u>	<u>Cover (%)</u>	<i>Cyperus papyrus</i>	RD	65	<i>Cyclosorus interruptus</i>	TP	15	<i>Desmodium salicifolium</i>	CP	5	<i>Leersia hexandra</i>	RP	5	<i>Pouzolzia parasitica</i>	TP	3
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