**Low-input maize-based cropping systems implementing IWM match conventional maize monoculture’s productivity and weed control**

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**Supplementary information Figure 4: Weed and cover crop biomass before cover crop destruction (mean value of the two plots each year per system over the 2012-2015 period) in the four cropping systems (MMConv: conventional maize monoculture; MMCT: conservation tillage maize monoculture; MMLI: low-input maize monoculture; Maize-MSW: integrated maize rotation;). Error bars represent standard deviations. No cover crop was sown in 2011 or for the MMConv treatment. Weed biomass data was not collected in 2013 for the MMConv treatment. The symbol + indicates that volunteer wheat was counted in the cover crop biomass and the symbol ‡ indicates that the mean was computed even though the two plots were not sampled the same day (see following chart for details).**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | Biomass (g DM/m²) | |
| Cropping system | Block | Field | Year | Sampling time | Weeds | Cover crop |
| MMConv | 1 | L7 | 2012 | 24/02/2012 | 29 ± 1 | - |
| MMConv | 2 | L26 | 2012 | 24/02/2012 | 17 ± 19 | - |
| MMConv | 1 | L7 | 2013 | - | - | - |
| MMConv | 2 | L26 | 2013 | - | - | - |
| MMConv | 1 | L7 | 2014 | 11/03/2014 | 0 ± 0 | - |
| MMConv | 2 | L26 | 2014 | 11/03/2014 | 3 ± 4 | - |
| MMConv | 1 | L7 | 2015 | 18/03/2015 | 6 ± 6 | - |
| MMConv | 2 | L26 | 2015 | 18/03/2015 | 13 ± 16 | - |
| MMCT | 1 | L05 | 2012 | 09/03/2012 | 21 ± 14 | 112 ± 17 |
| MMCT | 2 | L20 | 2012 | 09/03/2012 | 15 ± 8 | 70 ± 7 |
| MMCT | 1 | L05 | 2013 | 17/04/2013 | 25 ± 15 | 477 ± 4 |
| MMCT | 2 | L20 | 2013 | 17/04/2013 | 2 ± 2 | 591 ± 119 |
| MMCT | 1 | L05 | 2014 | 24/04/2014 | 8 ± 2 | 229 ± 49 |
| MMCT | 2 | L20 | 2014 | 24/04/2014 | 6 ± 3 | 247 ± 93 |
| MMCT | 1 | L05 | 2015 | 21/04/2015 | 26 ± 35 | 146 ± 14 |
| MMCT | 2 | L20 | 2015 | 21/04/2015 | 3 ± 5 | 228 ± 83 |
| MMLI | 1 | L02 | 2012 | 23/02/2012 | 6 ± 5 | 58 ± 62 |
| MMLI | 2 | L22 | 2012 | 24/02/2012 | 10 ± 5 | 148 ± 6 |
| MMLI | 1 | L02 | 2013 | 17/04/2013 | 14 ± 5 | 340 ± 113 |
| MMLI | 2 | L22 | 2013 | 17/04/2013 | 6 ± 8 | 350 ± 125 |
| MMLI | 1 | L02 | 2014 | 11/03/2014 | 4 ± 5 | 287 ± 112 |
| MMLI | 2 | L22 | 2014 | 11/03/2014 | 0 ± 0 | 43 ± 21 |
| MMLI | 1 | L02 | 2015 | 18/03/2015 | 14 ± 2 | 208 ± 66 |
| MMLI | 2 | L22 | 2015 | 18/03/2015 | 13 ± 21 | 136 ± 30 |
| Maize-MSW | 1 | L4-1 | 2012 | 19/01/2012 | 125 ± 122 | 203 ± 135 |
| Maize-MSW | 2 | L19-1 | 2012 | 05/12/2011 | 51 ± 4 | 33 ± 37 |
| Maize-MSW **+** | 1 | L14-2 | 2013 | 02/11/2012 | 0 ± 0 | 75 ± 7 |
| Maize-MSW **+** | 2 | L24-2 | 2013 | 02/11/2012 | 5 ± 3 | 94 ± 10 |
| Maize-MSW **+** | 1 | L10 | 2014 | 12/11/2013 | 0 ± 0 | 61 ± 3 |
| Maize-MSW **+** | 2 | L17 | 2014 | 27/11/2013 | 0 ± 0 | 53 ± 4 |
| Maize-MSW **+** | 1 | L4-1 | 2015 | 05/11/2014 | 12 ± 11 | 202 ± 57 |
| Maize-MSW **+** | 2 | L19-1 | 2015 | 05/11/2014 | 15 ± 5 | 156 ± 36 |

**Weed and cover crop biomass before cover crop destruction (mean value of each plot of each system over the 2012-2015 period) in the four cropping systems (MMConv: conventional maize monoculture; MMCT: conservation tillage maize monoculture; MMLI: low-input maize monoculture; Maize-MSW: integrated maize rotation;). Values after ± represent standard deviations. No cover crop was sown in 2011 or for the MMConv treatment. Weed biomass data was not collected in 2013 for the MMConv treatment. The symbol + indicates that volunteer wheat was counted in the cover crop biomass.**