***Supplementary Table S4*** Characterization of fertilization management in contrasted mixed crop-livestock systems

|  |  |  |
| --- | --- | --- |
| **Strategies →****Fertilization characteristics↓** | **NON-INTEGRATED** | **INTEGRATED** |
| MC20-L80 | MC80-L20 | MC20-L80 | MC80-L20 |
| Nitrogen needs (kg N) | 4557 | 8643 | 3722 | 8481 |
| Manure produced (Tonnes) | 304 | 134 | 304 | 136 |
| Nitrogen value of manure (kg N) | 666 | 293 | 806 | 508 |
| Nitrogen purchases (kg N) | 3892 | 8350 | 2916 | 7973 |

MC20-L80 = Mixed crop-livestock system with 20% of the agricultural area with crops and 80% of the agricultural area with pastures for livestock; MC80-L20 = Mixed crop-livestock system with 80% of the agricultural area with crops and 20% of the agricultural area with pastures for livestock