Innovative integrated systems for intensification of banana, pig and cattle production in Yunnan


October 12, 2016 Montpellier
Intensified banana production system
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Banana harvest cableway
Banana plantations significantly improve local farmer’s livelihood.

Miao, Hani, and Dai ethnic groups in Yunnan
Fusarium wilt (TR4) is one of the most crucial factors which affect China banana industry and the stability of agricultural ecosystem.

In 2013 the direct economic losses reached 750 million Yuan in China, 250 million Yuan losses at Yunnan.
How to manage Fusarium wilt?
On average, there is 29 kg per banana stalk and 6 tons biomass in one Mu banana plantation.
New born twin after 1 day
Table 1: The detailed composition analysis of silage product derived from banana stem and leaf

<table>
<thead>
<tr>
<th>Sample source (Composition)</th>
<th>Neutral fiber (%)</th>
<th>Acidic fiber (%)</th>
<th>Crude fiber (%)</th>
<th>Lignin (%)</th>
<th>Crude protein (%)</th>
<th>Crude fat (%)</th>
<th>Crude ash (%)</th>
<th>Calcium (mg/g)</th>
<th>Phosphorus (mg/g)</th>
<th>Tanni (%)</th>
<th>Water content (%)</th>
<th>Soluble sugar (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yuangjiang (Banana stem + Straw + corn flour)</td>
<td>58.72</td>
<td>42.05</td>
<td>31.87</td>
<td>10.15</td>
<td>8.96</td>
<td>1.71</td>
<td>16.50</td>
<td>15.92</td>
<td>1.16</td>
<td>0.262</td>
<td>85.79</td>
<td>0.89</td>
</tr>
<tr>
<td>Simaogang (Banana stem and leaf + corn flour + rice bran)</td>
<td>53.99</td>
<td>31.84</td>
<td>27.64</td>
<td>4.94</td>
<td>8.57</td>
<td>1.57</td>
<td>16.15</td>
<td>12.94</td>
<td>1.31</td>
<td>0.14</td>
<td>87.24</td>
<td>1.06</td>
</tr>
<tr>
<td>YAAS (Banana stem and leaf + corn flour + grass bran)</td>
<td>54.27</td>
<td>28.90</td>
<td>26.45</td>
<td>3.41</td>
<td>9.37</td>
<td>2.14</td>
<td>9.70</td>
<td>3.02</td>
<td>1.29</td>
<td>0.24</td>
<td>73.77</td>
<td>1.29</td>
</tr>
</tbody>
</table>
Thank you

Sijun Zheng
s.zheng@cgiar.org

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