RESEARCHES CONCERNING THE N:P:K REPORT OF THE TEMPORARY MEADOWS OF THE OLTENIA HILL REGION

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SUMMARY
Numerous investigations which took place both in the country [1] and in the hill region of Oltenia [2,4] have stated numerous fertilization technology links of the temporary meadows. In Preajba, Gorj district, a series of results have proved the necessity of using a larger dose of phosphorus and potassium, even in the case of the association with a medium nitrogen dose [3]. In order to bring new proofs for this matter, in 2005 it took place a bifactorial experience where the factor A was represented by the nitrogen dose and the factor B was represented by the N:P:K report (table 1). On the three year average production (2006-2008) the quantity harvested of dry matter has oscillated depending on the nitrogen dose, from 5.53 t/ha (80 N) to 6.76 t/ha (160 N). In general, these results confirm the experimental data previously achieved (table 1).

<table>
<thead>
<tr>
<th>N:P:K report</th>
<th>Factor A – nitrogen dose</th>
<th>Average factor B t/ha d.m.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:0:5:0:5</td>
<td>80 N</td>
<td>5.01 5.73 6.48 5.74</td>
</tr>
<tr>
<td>1:0:75:0:75</td>
<td>120 N</td>
<td>5.58 6.14 6.69 6.13</td>
</tr>
<tr>
<td>1:1:1</td>
<td>160 N</td>
<td>6.01 6.62 7.13 6.60</td>
</tr>
</tbody>
</table>

Table 1
The influence of N dose and of the N:P:K report upon the temporary meadows (t/ha d.m., average of 2006-2008)

The N:P:K report had also an important influence upon the production. If at the report 1:0:5:0:5 the medium production was of only 5.74 t/ha, at the report 1:0.75:0.75 the production raised by 0.30 t (considerable distinct output ), and at the report 1:1:1 the output was of 0.86 t/ha (very important). The combined influence of the 2 factors has underlined the report 1:1:1 followed by the report 1:0.75:0.75, regardless of the nitrogen dose.

In conclusion, the temporary meadows of the north of Oltenia need a complete fertilization, where the nitrogen will be administered in a dose of 120-160 kg/ha. According to the nitrogen dose, the phosphorus and the potassium will be administered so that it would be realized a N:P:K report 1:0.75-1:0.75-1.

3. Ionescu.I., M.Osiceanu,2005, Cercetari privind periodicitatea ingrasamintelor cu fosfor si potasiu pe pajistile temporare din zona de deal. Lucr.st.vol.48 USAMV Iasi,