



**„LIFE+ “CONSERVATION OF THE WINTERING POPULATION OF THE GLOBALLY THREATENED RED-BREASTED GOOSE”  
(LIFE09 NAT/BG/000230)**

**PILOT AGRI-ENVIRONMENTAL PROGRAM FOR THE REGION OF SHABLA AND DURANKULAK**

**Aiming to encourage farmers to implement agricultural practices associated with better protection of the wintering population of the globally threatened Red-breasted Goose**

Annex 5: Calculation of agri-environmental and compensatory payments

This annex presents the methodology used to calculate payments for participation in the activities of the pilot agri-environmental program (PAEP) for Shabla and Durankoulak within the project "Conservation of the wintering population of the globally threatened Red-breasted Goose" (Branta ruficollis) ", LIFE09 NAT/BG/000230.

In agri-environmental activities within the PAEP, the estimated payments shall compensate farmers for losses in production / income ( lost revenue ) and costs of activities aimed at providing sufficient quantity and quality of food for the Red-breasted Goose. Yield losses are a result of damage caused by grazing geese and compliance with a plan for crop rotation, as well as leaving stubble of corn. The additional activities include the creation of buffer strips along water bodies, spreading corn and feeding winter crops with growth stimulator.

The payments include:

- Loss of revenue due to grazing geese or the rotation of crops and / or:
- Additional costs resulting from the implementation of activities beyond the usual agricultural practices;
- Compensating farmers for not applying for Direct Payments.

Schemes for the calculation of payments:

- A. In the farmers block, 50 % of the area to be used for crop rotation as follows: fallow land, corn, winter wheat: The farmers are compensated for the loss in yields, as studies have shown that geese graze 15% of the culture, which reduces the yield by the same %.

<b>Crop rotation activities – corn / winter wheat</b>	<b>Costs – BGN/ha</b>	<b>Incomes/losses - BGN/ha</b>
Decreased incomes due to lower yield (wheat) by 15% - 4t/ha at market price 321 BGN/t  - Data from the Ministry of Agriculture and Foods, yield 2011;  - Data from Statistics about average prices, July 2011 – April 2012		192,60
<b>Total average:</b>		<b>192,60 BGN</b>
<b>Proposed payment</b>		<b>98,47 EUR/ha</b>

- B. Creating buffer strips along water bodies with 20 meters width with any of the following crops - alfalfa, ... others .... - The establishment of buffer strips along water bodies leads to additional activities / costs for farmers, which are calculated below:

<b>Creating buffer strips along water bodies</b>	<b>Costs – BGN/ha</b>	<b>Incomes/losses - BGN/ha</b>
Additional costs for:  ➤ Buying alfalfa - 4,50 BGN/kg, 2,4 kg are necessary per dka; Decreased incomes due to lower yield of cereal crops, average loss 20% / ha	21,60	256,8 366,3
<b>Total</b>		<b>311,5+2,16= 333,1 BGN</b>
<b>Proposed payment</b>		<b>170,31 EUR/ha</b>

- C. Leaving stubble of corn on at least 25% of the area planted with corn:

<b>Leaving stubble of corn on at least 25% of the area</b>	<b>Costs – BGN/ha</b>	<b>Imcomes/losses - BGN/ha</b>

Lost income - 25%/ha due to lost yield		327,00
<b>Total</b>		<b>327,00 BGN</b>
<b>Proposed payment</b>		<b>167,19 EUR/ha</b>

D. Introducing the use of growth stimulants for supplementary feeding of winter crops - at the beginning and end of the winter season, 2 times per season;

<b>D. Introducing the use of growth stimulants</b>	<b>Costs – BGN/ha</b>	<b>Incomes/losses - BGN/ha</b>
<ul style="list-style-type: none"> <li>➤ Buying growth stimulant - 1,10 BGN/dka</li> <li>➤ Applying / spreading growth stimulant - 8 BGN/dka/2 times a year</li> </ul> Dose for one leaf application - 40 ml/dka, 1,10 BGN/dka.	11,00  160,00	
<b>Total</b>		<b>171,00 BGN</b>
<b>Proposed payment</b>		<b>87,43 EUR/ha</b>

E. Dispersing raw corn - 40 kg / ha – on at least 50% of the block area that is not planted with corn or is set aside:

<b>Dispersing raw corn</b>	<b>Costs – BGN/ha</b>	<b>Incomes/losses - BGN/ha</b>
<ul style="list-style-type: none"> <li>➤ Buying raw corn – 40 kg</li> <li>➤ Dispersing raw corn – 12 BGN/dka manual labour</li> </ul>	13,32  120,00	
<b>Total</b>		<b>133,32 BGN</b>
<b>Proposed payment</b>		<b>68,16 EUR/ha</b>

Additionally, the loss of funds from the area payment if the owner has not applied for that in the current year could be calculated - ..... BGN / ha in 2013.