

## **COLLECTION OF SOIL SAMPLES**



### **BASIC REQUIREMENTS**

The soil sample should be representative for the field where it was collected from. For this purpose an average sample is necessary to be collected from each field, irrespective of its area. If the area is larger than 10 dka (1 ha), an average soil sample is collected for every 10 dka (1 ha) – so called elementary plot. If there are slopes, elementary plots should be provided for the upper part, middle part and the bottom of the field. Soil samples collecting are carried out under normal weather conditions.

### **METHOD FOR SOILS SAMPLES COLLECTING**

Soil samples are collected using manual or mechanized probes. Three depths are required - 0 – 30 cm, 30 – 60 cm and 60 – 90 cm. From each elementary plot an average soil sample is collected, which is formed by 15-20 stitches. Stitches are made diagonally or in zigzag (see the attached schemes) inside the elementary plot, avoiding the unusual for the field areas. Soil from all stitches (for each depth in separate) is collected in a suitable larger vessel and is stirred for homogeneity. From this soil sample an average sample is collected – 400-500 g in weight when the soils is normal, and 600-800 g when the soil is skeletal (stony soil).

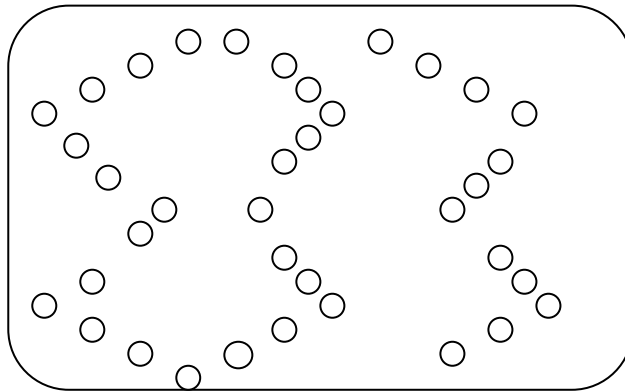
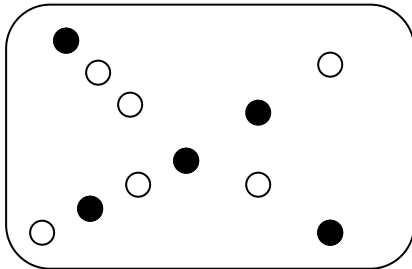
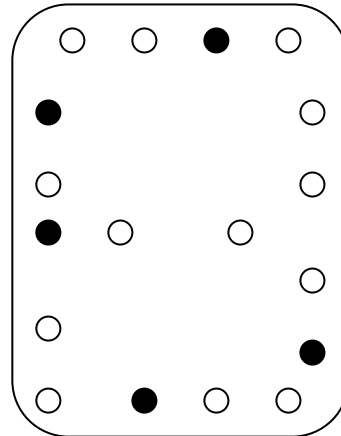
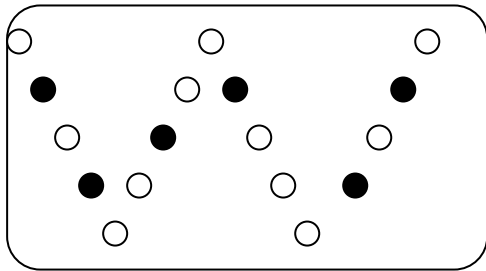
**The average soils sample is collected in plastic bags and the following data are required to be recorded on it:**

Region (district) .....  
 Location (city) .....  
 Area .....  
 Identification number of the property .....  
 Number of the sample .....  
 Collection depth, cm .....  
 Date of sampling .....  
 Name of the collector .....

### **SOIL ANALYSIS REQUIRED FOR THE FIELD ASSESSMENT FOR PAULOWNIA PLATATION ESTABLISHMENT**

1	pH 6	6	Assimilate phosphorus
2	Humus	7	Assimilate potassium
3	Mechanical composition	8	Calcium and magnesium content
4	Total carbonates	9	Microelements– Fe, Zn, Cu, Mn
5	Mineral nitrogen	10	Electrical conductivity

**SCHEMES FOR SOIL SAMPLES COLLECTING FROM ELEMENTARY PLOT**



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*This document is only a guide. The data for its completion includes various sources and experiments according to the specific land conditions (climate, soils) that are not under the control of the author. The authors could not guarantee the accuracy of the consequences of the above instructions.*