



Field: General Agriculture, Agriproduction

TEST

SOIL TILLAGE SYSTEMS FOR FIELD CROP PRODUCTION



Petar Yankov, Miglena Drumeva

2017

**Boosting Adult System Education In Agriculture - AGRI BASE
Erasmus+ K2 Action Strategic Partnership**

Test

1. Which pre-sowing tillage for wheat increases the percent of seeds planted within the optimal depth?

- a) disking;
- b) ploughing;
- c) direct sowing.

2. Which main soil tillage for maize increases the percent of seeds planted within the optimal depth?

- a) direct sowing;
- b) disking;
- c) ploughing.

3. Which pre-sowing tillage for wheat increases the weight of roots per plant, at the autumn tillering?

- a) pre-sowing ploughing;
- b) direct sowing;
- c) disking.

4. After which pre-sowing tillage for wheat the weight of the wheat roots determined at stage heading of plants is highest for the entire 0-50 cm profile?

- a) ploughing;
- b) disking;
- c) direct sowing.

5. After which main soil tillage for maize most of the roots concentrate in the surface layers?

- a) chisel ploughing;
- b) disking;

c) direct sowing.

6. After which pre-sowing tillage for wheat the mean number of emerging plants is highest?

- a) disking;
- b) direct sowing;
- c) ploughing.

7. After which pre-sowing tillage for wheat the number of fillers is lowest?

- a) ploughing;
- b) disking;
- c) chisel plough.

8. After which main soil tillage for sunflower, the start of sunflower emergence is with a couple of days later when the mean daily air temperatures are lower?

- a) no differences between soil tillage;
- b) minimal and no-tillage;
- c) intensive tillage.

9. After which main soil tillage for sunflower the plant height at budding stage is highest?

- a) ploughing;
- b) chisel ploughing;
- c) disking.

10. After which main soil tillage for sunflower the size of heads and the weight of seeds in them decrease?

- a) no differences between soil tillage;
- b) disking and constant direct sowing;
- c) ploughing and chisel ploughing.

11. Which main soil tillage for maize leads to retarded rate of emergence after sowing under lower temperatures and elongated the developmental stage of maize with 3-5 days?

- a) no differences between soil tillage;
- b) ploughing;
- c) chisel ploughing, disking and no-tillage.

12. Which main soil tillage for maize decreases the plant height and stem diameter at silking stage?

- a) disking;
- b) ploughing;
- c) chisel ploughing.

13. Which pre-sowing tillage for wheat increases the yields at long droughts?

- a) no differences between soil tillage;
- b) chisel ploughing, minimal and no-tillage;
- c) ploughing.

14. Which main soil tillage for sunflower increases the yields under high autumn-and-winter and vegetation rainfalls in combination with lower temperatures at the end of spring?

- a) no differences between soil tillage;
- b) minimal tillage and direct sowing;
- c) intensive soil tillage (ploughing).

15. Which main soil tillage for maize decreases the yields?

- a) disking;
- b) chisel ploughing;
- c) ploughing.

Note: The correct answers are in red.