



Press Release

Central Agency for Public Mobilization And Statistics

%2.1 of straw burned out of the total amount of straw produced 2019

Central Agency For Public Mobilization and Statistics issued on 14 / 12 /2020 a press release on a study to monitor the environmental and health effects of burning rice straw in 2019 in cooperation with the Ministry of Environment and the Ministry of Agriculture and Land Reclamation to study the environmental pollution caused by this phenomenon (the black cloud) .

the most important indicators of the study are the following:

1- The cultivated area:

- 1.3million feddans, the total area cultivated for rice in 2019/2018compared to 859.4 thousand feddans For the year 2018/2017, an increase of %46.2
- Dakahlia governorate ranked first for the area cultivated rice. The cultivated area was 369 thousand feddans, or %29.3of the total area, and the rice production for this area was 1.1 million tons, with a production rate of %30.3of the total amount of rice.
- Sharkia governorate came in second place in terms of rice cultivated area, reaching 277.7 thousand feddans, representing %22.1, and rice production in the governorate reached 868 thousand tons, or %30.3of the total rice quantity.
- While the cultivated area of rice in Kafr El-Sheikh governorate reached 266.0thousand feddans, representing %21.2of the total area, and rice production in the governorate reached 741.8thousand tons, or %19.7of the total amount of rice.
- The area of rice cultivated in Bahira governorate reached 192.1 thousand feddans, at a rate of 15.3% of the total area, and the production of rice in the governorate reached 510.7 thousand tons, or 13.5% of the total amount of rice
- The cultivated area of rice in Al-Gharbia Governorate reached 99.6 thousand feddans, or 7.9% of the total area, and rice production in the governorate reached 341.9 thousand tons, or 9.1% of the total rice quantity
- Finally, the cultivated area of rice in Damietta governorate reached 52.6 thousand feddans, representing 4.2% of the total area, and rice production in the governorate reached 167.1 thousand tons, or 4.4% of the total rice quantity.

2- Disposal of the produced rice straw:

- 2.1million tons of rice straw produced in 2019, with a production of 1.6tons / feddan.
- 43.9thousand tons of straw were burned with a rate of %2.1of the total amount of straw produced.
- 30.7 thousand tons of straw were burned in Al-Buhaira governorate, at a rate of 11.5% of the amount of straw produced in the governorate, which is the governorate that burned the most straw, while no case of burning appeared in Damietta governorate, and the amount of straw produced in it reached 86.6 thousand tons.

3- Small and medium enterprises and sources of financing:

Finally we conclude from the study the best sources of financing preferred by farmers for purchasing equipment are:

- **70.4** % of the total farmers prefer to borrow from the Egyptian Agricultural Bank, due to the large number of branches nationwide.
- **14.5** % preferred the Social Fund for Development because of its financial support for small projects and micro projects at the lowest cost to support it in encouraging small farmers to own agricultural equipment.
- **11.3** % of the total farmers preferred Nasser Social Bank, the ratio does not exceed

For the rice crop.

4- Damaging the environment by burning rice straw:

The study showed that the highest percentage of pollution resulting from burning rice straw was in Bahira governorate, as it reached proportions Emissions by:

- **69.9** % of the emissions of solid particles equivalent to the amount of incineration, and they represent **307** tons of the total amount of emissions.
- Nitrogen oxide emissions equivalent to the amount of incineration are **72.2**, which represents **13** tons of the total amount of emissions
- Sulfur oxide emissions equivalent to the amount of incineration are **66.7**, which represents **2** tons of the total amount of emissions.

5- Health damage from burning rice straw:

- The World Health Organization estimates that about **30** % of heart and lung diseases and **5** % of deaths Lung cancer due to particulate matter globally.
- Sulfur dioxide SO₂: It is a gas that affects human health when inhaled after about **10** or **15** minutes It irritates the nose, throat and airways, causing coughing, shortness of breath and more vulnerable people□
 - People who suffer from asthma or other health problems are people with health problems.
 - Nitrogen dioxide: An increase in nitrogen dioxide levels increases the likelihood of disease occurring.
- Respiratory system such as lung infections, coughs, colds, influenza, bronchitis and its great effects for people with asthma because it can cause more intense attacks.

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