Research on the use of rice leftover ESP. stalk and stover with the goal of stable agriculture

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Burning of pantry leftovers will have negative results and endanger the health of environment. Remaining of pantry leftovers after the production harvest has become a big problem for planting of next products. Nowadays because of unfamiliarity of most farmers for releasing field for next pantry they burning pantry leftovers or take them away. However by using new technologies and by processing pantry leftovers it could have different uses. Disadvantages of rice straw maintenance in fields: 1- Long term maintenance of heaps rice straw in each points of fields either for maintenance or for consumption during several month is a good hideaway for worms and mushrooms in seasons of fall and winter. 2- In case of the combination of leftovers with soil fields preparation of field is becoming difficult and also straws are breaking up later and it will cause the lack of C/N for next planting. 3- Maintenance of straws in fields and shriveling them leads to burning purposefully or without purpose. This event frequently happened and cause irreparable damage. Disadvantages of straw burning in rice fields: 1- Warmth which is caused by straw burning in the field at most influence until the depth of 4-8 Cm of soil and increase of temperature of this depth lead to killing of useful soil organisms. 2- Fire transmits to other points of fields and agricultural machines. 3- Smoke produced around the roads cause car accidents. 4- Air pollution because of straw burning. Conclusion: With regard to function of rice stalk and stover in surface unit to the rate of 6 Ton/ha and the amount of rice planted surface in Isfahan province this year was 18300 Ha, that with regard to this rate about 110000 Ton stalk and stover will produce this stalk and Stover can be used in the following cases: 1- Use of rice straw in packaging industry 2- Production of ethanol alcohol 3- Wood production with high quality 4- Using in pet foods enriched 5- Using in composting and providing of necessary environment for mushroom. So with suitable management we can use this tremendous property and it will become a source of income for farmers.

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