



Fire monitoring on agricultural lands and prediction of possible effects on soil

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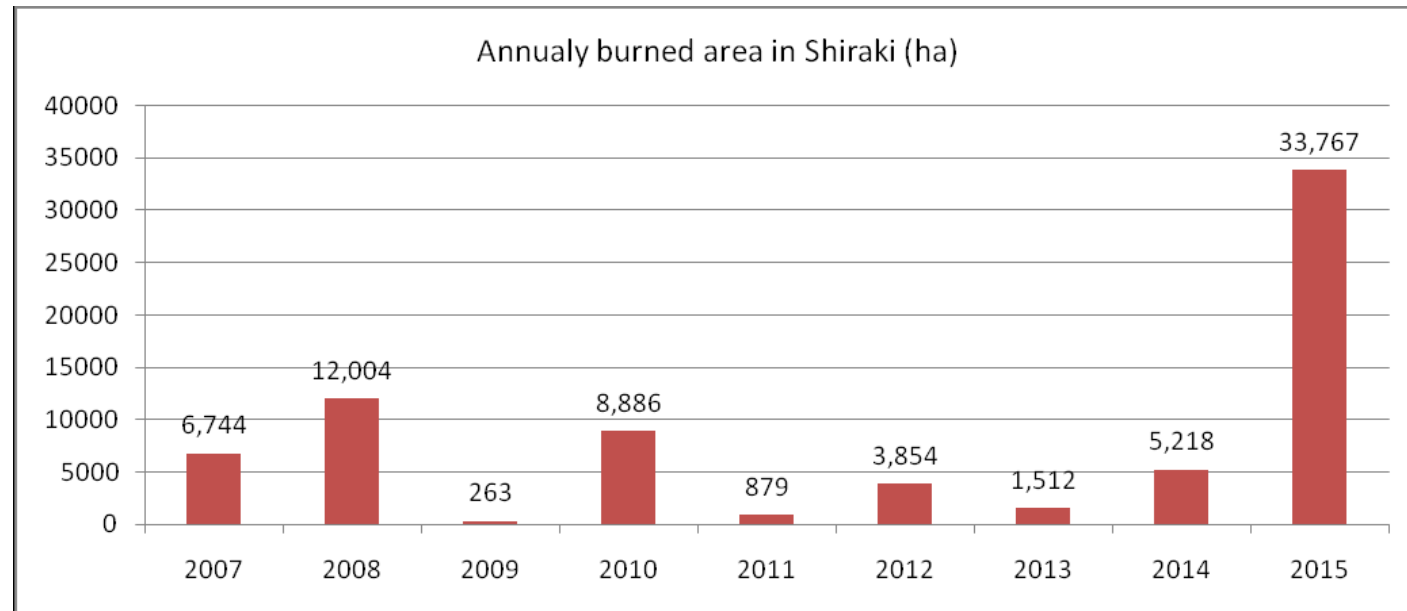
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SCERIN-4 Capacity Building Workshop

Zvolen, Slovakia, July 19-22, 2016



Agricultural lands affected by fire





Impacts of fire on soil

Negative impacts of fire on soil:

- Decrease in soil organic matter content;
- Increase in soil bulk density;
- Reduction in water holding capacity;
- Increase in cracking of soil and risk of wind erosion due to removal of plant residues and rapid water losses from soil;
- Reduction in soil organisms

Positive impacts of fire may include:

- Reduction of costs on hiring of agricultural machinery for straw baling and/or chopping and integration it into soil;
- Phytosanitary measure to reduce pest and diseases