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2009 ARS Improves Crop Residue Management
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May
April Researchers at agricultural Research Service (ARS) the main scientific
research agency of the US Department of Agriculture (USDA) have found some barley and wheat cultivars produce crop residues that differ in fiber composition
lanuary carbon/nitrogen ratios, and other characteristics. Growers rotating crops can use
this information to select wheat and barley cultivars with residues that can optimize field conditions for subsequent production. This refined crop residue
December
November moisture, and maximize crop yields.
October ARS soil scientist Ann Kennedy and Tami Stubbs of Washington State University
September (WSU), US, conducted a two-year study of post-harvest crop residues with other WSU and ARS colleagues. They identified links between decomposition
August processes and fiber and nutrient characteristics of the straw from residues of 17
▼ July cultivars of winter wheat, 16 cultivars of spring wheat, and nine cultivars of spring barley grown at four locations in southeastern Washington. The team measured
June the content of hemicellulose, cellulose, and lignin in each type of residue, as well
May as residue levels of carbon and nitrogen and the ratio of the amount of carbon to nitrogen (C/N).
April
March The research team found that the straw from the different cultivars had notable differences in fiber composition and C/N ratios, which along with carbon levels
February also varied significantly by location, probably because of different soil and growing
January conditions. Results of tests on the straw residues indicated that 14% of the cultivars had characteristics for slow residue decomposition and 14% had
2007 characteristics indicating a potential for rapid decomposition. Rapidly
November areas where more straw is produced.
September select cultivars that produce residues best adapted to reduced-tillage cultivation.
August These residues may also benefit subsequent crop establishment, maximize soil
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April EPA has revoked all tolerances for crop pesticide carbofuran and will cancel all remaining
March registrations for the chemical by the end of 2009.
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