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Solving Problems for the Growing World

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Cover: Immunologist Hyun Lillehoj holds a chicken gene chip that contains up to 10,000 chicken genes. Story begins on page 12. Photo by Stephen Ausmus. (D1145-1)

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DUST IN THE WIND—Model farms inside wind tunnels show innovative ARS scientists where to place farm buildings to minimize dust and gaseous emissions from animal-production facilities.

ROLLED AND CRIMPED TO DEATH!—ARS agricultural engineers have developed machines that can roll and crimp a high-biomass cover crop like rye to death, which occurs with little or no herbicides added. Once it's dead, a cash crop can be planted into it. Benefits include soil conservation, weed control, reduced erosion, and cost savings for growers!

TOMATO GROWERS, TAKE HEART—Genetics studies of pepino mosaic virus (PepMV), widespread in Europe and now spreading in North America, and of some wild tomatoes and other members of the *Solanum* genus are leading to promising PepMV-resistant tomato strains.