



Dry Manure Housing Systems for Beef and Dairy Operations

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2:30 pm (eastern), 1:30 pm (central), 12:30 pm (mountain), 11:30 am (pacific)

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Bedded beef facilities are gaining popularity as a lower cost confinement feeding option that eliminates the environmental impacts associated with open lot runoff. Design and management considerations for bedded beef barns will be discussed along with observations from a study at ISU comparing a bedded hoop building with an open lot. Compost dairy barns are a loose housing system for milking, dry, and special needs cows. Pack management is critical to compost barn success. Design and management recommendations for compost dairy barns based on producer experience will be discussed.



Shawn Shouse is a field specialist in agricultural engineering at Iowa State University. He joined ISU extension in 1988. He has previous experience as a design engineer for grain bins and building manufacturers. His areas of expertise include water quality, manure management and livestock housing design. He was among a group of extension and research staff who designed and monitor the beef housing systems comparison study at the ISU Armstrong Research Farm. He holds an M.S. in agricultural engineering from Iowa State University.

Dr. Kevin Janni is professor and extension engineer in the Department of Bioproducts and Biosystems Engineering at the University of Minnesota. Dr. Janni joined the department in 1980, has served as Director of Undergraduate Studies for five years, Director of Graduate Studies for six years and department head for five years. Dr. Janni has extensive research programs related to livestock systems, ventilation, indoor air quality, odor emissions and dispersion, biofilters, milk house wastewater and compost dairy barns with over 40 refereed journal articles and numerous conference proceedings papers and Extension articles. He is also a registered professional engineer in Minnesota.



Resources and Links:

--University of Minnesota compost dairy barn website:

<http://www.extension.umn.edu/dairy/management/compostbarns.htm>

-- Beef Cattle Feeding in a Deep-Bedded Hoop Barn: Year One (Iowa State University)

<http://www.ans.iastate.edu/report/air/2007pdf/R2189.pdf>

--Designing a Hoop Building for Feeding Beef Cattle (ISU)

<http://www.ag.iastate.edu/farms/05reports/arm/DesigningHoopBuilding.pdf>

--Beef Feedlot Systems Manual (ISU) <http://www.extension.iastate.edu/Publications/PM1867.pdf>

How do I participate?

Information about software requirements, testing your connection, and how to connect to the webcast are available at <http://lpe.unl.edu/webcast5.html>.

The LPE Learning Center is a project dedicated to the vision that individuals involved in public policy issues, animal production, and delivery of technical services for confined animal systems should have on-demand access to the nation's best science-based resources. More information is available at <http://lpe.unl.edu>.