

# **Use of Computer Spreadsheets and Paper-based Workbooks to Teach Comprehensive Nutrient Management Planning. (A04-shapiro165222-Poster)**

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## **Abstract:**

The program objective was to provide producers and ag advisors the skills needed to prepare a permit application to operate a confined livestock facility. A three-session intensive hands-on workshop with nine contact hours was conducted at four sites in Nebraska. The workshop included lecture and participatory use of spreadsheets. 58% reported the sessions were easy to understand and only 4% said they were difficult to understand out of an average of 62 responses per session. Eight specific tasks were taught that were identified as needed to complete a livestock operation permit application. They were: estimate total land needed, calculate manure credits, calculate crop nitrogen recommendation, develop nutrient management plan, write annual application plan, identify key records needed to maintain a permit, and prepare required maps. Over 60% reported they could do these tasks after the workshop, an additional 30 % reported they could do these tasks with some help. 62 % thought they could complete the land application part of the permit. Comments from the evaluation stressed the success of using computer-based tools in conjunction with explanations by various presenters.

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