

June 2, 2009

## **Dr. Hellevang's Publications**

### **Professional Engineering Handbooks**

I was selected to author the chapters by the SE-08 ASHRAE Liaison Committee of the American Society of Agricultural Engineers. The chapters were referee peer reviewed by SE-08 and by the TC 2.2 Plant and Animal Environment committee of the American Society of Heating, Refrigerating and Air Conditioning Engineers prior to printing. Approximately 50,000 copies of each handbook were distributed internationally.

Hellevang, K. J. 1991 pg. 22.1 to 22.12  
"Drying and Storing Farm Crops"  
*1991 ASHRAE Handbook - HVAC Applications*  
American Society of Heating, Refrigerating and Air Conditioning  
Engineers, 1791 Tullie Circle N.E., Atlanta, GA 30329, 12 p.

Hellevang, K. J. 1987 pg. 38.1 to 38.12  
"Drying and Storing Farm Crops"  
*1987 ASHRAE Handbook - HVAC Systems and Applications*  
American Society of Heating, Refrigerating and Air Conditioning Engineers, 1791 Tullie Circle  
NE, Atlanta, GA 30329, 12 p.

### **Professional Engineering Standards**

I helped to write this standard as part of the Environment of Stored Products Committee of the American Society of Agricultural Engineers. The standard was approved by the Structures and Environment Division Standards Committee and adopted by ASAE.

Hellevang, K.J., et al. 2001  
"Design and Management of Storages for Bulk, Fall-Crop, Irish Potatoes", ASAE Engineering  
Practice: ASAE EP475.1, *Standards, Engineering Practices, and Data*  
American Society of Agricultural Engineers  
2950 Niles Road, St. Joseph, MI 49085-9659, 4 p.

Hellevang, K.J., et al. 1996  
"Design and Management of Storages for Bulk, Fall-Crop, Irish Potatoes", ASAE Engineering  
Practice: ASAE EP475 *Standards, Engineering Practices, and Data*  
American Society of Agricultural Engineers  
2950 Niles Road, St. Joseph, MI 49085-9659, 3 p.

Hellevang, K.J., et al. 1990

"Design and Management of Storages for Bulk, Fall-Crop, Irish Potatoes", ASAE Engineering Practice: ASAE EP475 *Standards, Engineering Practices, and Data*  
American Society of Agricultural Engineers  
2950 Niles Road, St. Joseph, MI 49085-9659, 3 p.

### **MidWest Plan Service Publications**

The MidWest Plan Service is a university organization of extension and research agricultural engineers from the 12 states of the north central region, plus representatives of the USDA. Authors are selected by the MidWest Plan Service (MWPS) based on expertise in the publication topic. The published material is accepted by consensus and has approval of the majority of the authors and technical reviewers. The publication is reviewed by professional editors. The publication is reviewed with right of rejection by the MWPS Committee.

Hellevang, Kenneth and Powell, Morgan 2002 (Submitted and being edited)  
The Ground Connection (10 single space pages plus figures)  
In: *MWPS-16 Rev - House Planning Handbook*  
Midwest Plan Service  
Iowa State University, Ames, Iowa

Hellevang, K.J. 1999  
*Dry Grain Aeration System Design Handbook* (Revised) MWPS-29  
Midwest Plan Service  
Iowa State University, Ames, IA 50011-3080 88 pgs.

Hellevang, K.J. 1998  
(Submitted for publication, reviewed, and edited, but the book has been put on hold.)  
MWPS SE-1 Managing Dry Grain in Storage 7 pgs.  
MWPS SE-1 Low Temperature Drying 14 pgs.  
MWPS SE-1 Controlled Atmosphere Fruit Storage 2 pgs.  
MWPS SE-1 Bulk Potato Storage 3 pgs.  
MWPS SE-1 Potato Loads 2 pgs.  
Midwest Plan Service  
Iowa State University, Ames, IA 50011-3080

Hellevang, K.J. - Chair December 1997  
Backer L., Brook R., Harner J., Jones D., Maier D., Peterson B., & Wilcke W.  
*Dry Grain Aeration System Design Handbook*, MWPS-29  
MidWest Plan Service  
Iowa State University, Ames, Iowa 50011, 88 p.

Hellevang, K.J. 1990

"Bulk Potato Storage"

*Midwest Plan Service Structures and Environment Handbook*, MWPS-1 Eleventh Edition 1983,  
Revised 1987, Potato Revision 1990  
Iowa State University, Ames, Iowa 50011, 3 p.

Hellevang, K.J. 1990

"Potato Loads"

*Midwest Plan Service Structures and Environment Handbook*, MWPS-1 Eleventh Edition 1983,  
Revised 1987, Potato Revision 1990  
Iowa State University, Ames, Iowa 50011, 2 p.

Hellevang, K.J., Cloud H., Van Fossen L., Backer L., Brook R., Mc Kenzie B., Peterson B.,  
Pierce R., & Riskowski G. 1988

*Grain Drying, Handling, and Storage Handbook*

MWPS-13, Midwest Plan Service, Iowa State University  
Ames, Iowa 50011, 88 p.

## **Books**

Hellevang, Kenneth 2003

Vegetable Storage Systems, Pgs 1116-1123

In: *Encyclopedia of Agricultural, Food and Biological Engineering*  
Marcel Dekker, Inc., New York, New York

Hellevang, K. J. 1997

Sunflower Drying and Sunflower Storage, Chapter 13, 16 p.

In: *Sunflower Technology and Production*

American Society of Agronomy, Crop Science Society of America,  
and Soil Science Society of America

Madison, Wisconsin, 53711

## **National Publication - Refereed**

I was selected to serve as senior author of this publication that was referee peer reviewed.

Hellevang, K.J. and Morey, R.V. 1985

"Energy Conservation and Alternative Energy Sources for Corn Drying", NCH-14 In: *National Corn Handbook*, Cooperative Extension Service, Purdue University, West Lafayette, Indiana, 6 p.

## **Dissertation and Thesis**

Hellevang, K.J. 1989  
"Moisture Content Changes in Stored Grain During Summer"  
Doctor of Philosophy in Engineering Dissertation  
North Dakota State University, Fargo, ND, 186 p.

Hellevang, K.J. 1979  
"Design and Performance of a Solar Energy Intensifier System for Drying Shelled Corn," Master  
of Science in Agricultural Engineering Thesis, South Dakota State University, Brookings, SD,  
81 p.

## **Proceedings**

Hellevang, K.J. 1993  
"Potato Storage Structures, Ventilation and Management"  
Proceedings of the University of Idaho Winter Commodity Schools 1993, University of Idaho,  
Moscow, Idaho 83843, 14 p.

Hellevang, K.J. 1992  
"Potato Storage Structures, Ventilation and Management"  
Annual Alberta Potato Industry Conference Proceedings  
Potato Growers of Alberta, Calgary, Alberta, Canada, 14 p.

Hellevang, K.J. 1988  
"Potato Storage Structural Plans"  
Proceedings of the National Potato Council/National Snack Food Association Chipping Seminar,  
East Grand Forks, MN, 2 p.

Hellevang, K.J. 1983  
"Crop Dryer Fires While Drying Sunflower"  
Proceedings of Sunflower Research Workshop, January 26, 1983  
National Sunflower Association  
P.O. Box 2533, Bismarck, ND 58502-2533, 1 p.

Hellevang, K.J., Hofman, V. and Berglund, D. 1982  
"Sunflower Production, Harvesting, Drying and Storage"  
Proceedings of the International Conference on Plant and Vegetable Oil as Fuels, American  
Society of Agricultural Engineers, St. Joseph, Michigan 49085, 9 p.

## **Professional Technical Papers**

Hellevang, K., Duchscher, J. & Johnson, N. 2003

“Breakage Susceptibility of Pinto and Navy Beans Related to Moisture Content, Temperature, and Impact Force; and Natural Air Drying Pinto Beans,” ASAE Paper 036005

American Society of Agricultural Engineers  
St. Joseph, MI 49085

Hellevang, et.al. 2001

“Storage Environment Effect on Pinto Bean Quality and Resistance to Airflow of Pinto and Navy Beans,” ASAE Paper 01-6061

American Society of Agricultural Engineers  
St. Joseph, MI 49085

Hellevang, Osowski, Henson, Dang and Hou 2000

“Pinto Bean Storage Environment Effect on Quality,” RRV00-501

American Society of Agricultural Engineers  
2050 Niles Road  
St. Joseph, MI 49085-9659

Hellevang, K. J. and Bakker, T. J. 1998

“Bulk Carrot Storage Environmental Engineering,” ASAE 986104

American Society of Agricultural Engineers  
St. Joseph, Michigan 49085-9659 21 p.

Hellevang, K. J. 1996

“Air Temperature Increase due to Grain Drying and Aeration Fans,” Paper 966045

American Society of Agricultural Engineers  
St. Joseph, Michigan 49085-9659

Hellevang, K. J. 1995

“Air Temperature Increase due to Grain Drying Fans,” Paper SD95-117

American Society of Agricultural Engineers  
St. Joseph, Michigan 49085-9659

Hellevang, K.J. 1992

"Dockage, Moisture Content, and Test Weight Variations in End-Gate Wheat Streams"

Paper No. SD92-114, American Society of Agricultural Engineers, St. Joseph, Michigan 49085-9559

Hellevang, K.J. 1991

"Grain Warming Due to Uncovered Aeration Ducts" Paper No. MNSK91-118

American Society of Agricultural Engineers, St. Joseph, Michigan 49085-9659

Hellevang, K.J. 1990

"Grain Moisture Content Change During Warming By Aeration" Paper No. 90-6587  
American Society of Agricultural Engineers, St. Joseph, Michigan 49085-9659

Hellevang, K.J. 1989  
"Effect of Condensation on Grain Moisture Content and its Measurement with Meters"  
Paper No. 89-6534, American Society of Agricultural Engineers, St. Joseph, Michigan 49085-9659

Hellevang, K.J. 1989  
"Airflow Uniformity From Aeration Ducts" Paper No. NCR89-201  
American Society of Agricultural Engineers, St. Joseph, Michigan 49085-9659

Hellevang, K.J., and Hirning, H.J. 1988  
"Moisture Movement in Stored Grain During Summer" Paper No. 88-6052  
American Society of Agricultural Engineers, St. Joseph, Michigan 49085-9659

Hellevang, K.J. 1987  
"Field Study of Moisture Movement in Stored Grain During Spring and Summer"  
Paper No. NCR 87-104, American Society of Agricultural Engineers, St. Joseph, Michigan 49085

Hellevang, K.J. 1984  
"Air Static Pressure Bin Demonstration" Paper No. NCR 84-502  
American Society of Agricultural Engineers, St. Joseph, Michigan 49085

Hellevang, K.J. 1982  
"Crop Dryer Fires While Drying Sunflower," Paper No. 82-3563  
American Society of Agricultural Engineers, St. Joseph, Michigan 49095

Hellevang, K.J. and Hellickson, M.A. 1979  
"Design and Performance of a Solar Energy Intensifier System for Drying Shelled Corn"  
Paper No. NCR 79-205, American Society of Agricultural Engineers, St. Joseph, Michigan 49085

### **Extension Publication - Peer Reviewed**

Publications are peer reviewed by at least three people. These may be professors at other universities, professors at NDSU, or industry professionals competent to review the material. The manuscript content and the review process is approved by either the Department Chair, or Associate Director for the program unit. The manuscript is reviewed by a professional editor. This review process is followed without exception on a standard clearance form since the publications contain recommendations that affect millions of dollars in crop or livestock production.

Hellevang, Kenneth March 2009  
AE-626 (Revised) "Sandbagging for Flood Protection"  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Pedersen, Carl and Hellevang, Kenneth March 2009  
"Air-to-Air Heat Exchangers"  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Pedersen, Carl and Hellevang, Kenneth March 2008  
AE-1359 "No Cost/Low Cost Energy Saving Tips"  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Pedersen, Hellevang, Scherer, Nowatzki June 2008  
AE-1368 "Farmstead Energy Audit"  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Pedersen, Carl and Hellevang, Kenneth June 2008  
AE-1373 "Determining Insulation and Air Infiltration Levels Using an Infrared Thermometer"  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, Kenneth and Pedersen, Carl August 2008  
AE-1375 "Corn and Biomass Stoves"  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Pedersen, Carl and Hellevang, Kenneth July 2008  
"Insulating to Reduce Heating Costs" AE-1368  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

William Wilcke and Kenneth Hellevang, 2005  
Drying and Storage Management, pgs. 146-149,  
The Small Grains Field Guide, NDSU Extension Publication A290 & UMN Publication 07488-S  
University of Minnesota Extension Service and NDSU Extension Service  
Fargo, ND 58105

Schroeder, J.W. and Hellevang, K.J., June 2005  
Weights and Measures of Common Feed, AS-1282  
NDSU Extension Service, Fargo, ND 58105

Hellevang, Kenneth, September 2005

Is the sampling procedure for DON analysis important? Is grain cleaning economically feasible for removing DON? Is respiratory protection needed while handling infested grain? Does DON increase in storage?

In: DON (Vomitoxin) in Wheat: Basic Questions and Answers, PP-1302

Aakre, D., Flaskerud, G., Hellevang, K., Lardy, G., McMullen, M., Ransom, J., Sorenson, B., and Swenson, A.

NDSU Extension Service, North Dakota State University, Fargo, ND 58105

Hellevang, Kenneth 2004

“Harvesting, Drying & Storing Grain Corn,” 5 pages

A-834 Basics of Corn Production in North Dakota

NDSU Extension Service, Fargo, ND 58105

Hellevang, Kenneth 2003

“Drying and Storage of Sunflower,” 6 pgs.

Sunflower Production Guide

NDSU Extension Service, Fargo, ND 58105

Hellevang, Kenneth December 2003

“Drying, Storing, and Handling Dry Edible Beans,” pgs. 93-97

Dry Bean Production Guide (A-1133 revised)

NDSU Extension Service, Fargo, ND 58105 7,000 copies printed

Hellevang, Kenneth 2003

“Keep Your Home Healthy,” Revised, AE-1204

NDSU Extension Service

North Dakota State University, Fargo, ND 58105

10,000 copies printed

Hellevang, Kenneth 2002

“Soybean Drying, Handling and Storage,” p112-123

Soybean Production Field Guide for ND & NWMN, A-1172

NDSU Extension Service, ND Soybean Council, and MN Soybean Research & Promotion Council

North Dakota State University, Fargo, ND 58105

8,000 copies printed

Hellevang, Kenneth and Hofman, Vern 2002

“Fuel Cost Comparison Chart,” AE-1015, 4 pgs

NDSU Extension Service

North Dakota State University, Fargo, ND 58105

Hellevang, Kenneth 2001

“Remove Mold for a Healthy Home,” AE-1202  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105  
(7,000 copies distributed)

Hellevang, Kenneth 2001  
“Keep Your Home Healthy,” AE-1204  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105  
(Distributed by USDA CSREES to all 50 states, 10,000 distributed)

Hellevang, K.J. 2000  
“Crop Dryeration and In-storage Cooling,” AE-808 Revision  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 2000  
“Canola Drying and Storage”  
Canola Field Guide  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 2000  
“Grain Storage Management,” AE-791 Revision  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 1999  
“Soybean Drying, Handling and Storage”  
Soybean Production Field Guide for North Dakota and Northwestern Minnesota, A-1172  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105 pgs. 113-123

Wilcke, Hellevang & Morey 1999  
“Soybean Drying, Handling & Storage”  
MN Soybean Field Book  
University of Minnesota Extension Service, pgs 150-160  
233,000 copies

Hellevang, K.J. 1999  
“Drying Barley” & “Managing Stored Grain”  
Barley Pocket Guide  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 1999  
“Molds in Your Home”  
Fact Sheet on the Web: <http://www.ag.ndsu.nodak.edu/flood/moldhome.htm>  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105 3 pgs.

Hellevang, K.J. 1999  
“Molds in Your Home,” AE 1179,  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105 4 pgs.

Hellevang, K.J. 1998  
“Temporary Grain Storage,” AE-84  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105 12 pgs.  
Distributed by universities in SD, NE, MN, MI, IA, & IL

Harner, J. and Hellevang, K.J. 1998  
“Drying & Storing Sunflower”  
High Plains Sunflower Handbook  
Kansas State University  
Manhattan, Kansas 66506

Hellevang, K. J. 1997  
“Grain Drying and Managing Stored Grain”  
HRS Wheat Production Guide A-1050  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105 3 pgs.

Hellevang, K. J. 1997  
“Corn Drying and Storage”  
Corn Production Guide A-1130  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105 5 pgs.

Hellevang, K. J. 1997  
“Drying, Storing and Handling Dry Edible Beans”  
Dry Bean Production Guide A-1133  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105 3 pgs.

Hellevang, K. J. & Wilcke, W. F. 1996  
“Maintaining Corn Quality for Wet Milling”  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105  
(I wrote the publication, which included some material from a presentation by Wilcke. He was listed a co-author since the geographical area served includes Minnesota.)

Hellevang, K. J., Backer, L. F. and Maher, G. G. 1995  
“Grain Stream Sampling and Sampler Construction,” AE-1044 Revised  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K. J. 1995  
“Grain Moisture Content Effects and Management,” AE-905 Revised  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K. J. 1994  
“Grain Drying,” AE-701 Revision  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hofman, V.L. and Hellevang, K.J. 1994  
“Planning Farm Shops”  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105 12 p.

Hellevang, K.J. August 1994  
“Grain Drying,” AE-701 Revised  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. April 1994  
“Drying and Storage,” 4pgs.  
Sunflower Production, EB 25 (Revised)  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. December 1993  
“Grain Drying, and Managing Stored Grain” A-1050  
1994 HRS Wheat Production Guide  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. December 1993  
"Grain Drying, and Managing Stored Grain" A-1068  
1994 Durum Wheat Production Guide  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Anderson, T.A. and Hellevang, K.J. Fall 1993  
"Controlling Heat Loss"  
Electric Power Quarterly No. 137, NDSU Agricultural Engineering Department, NDSU  
Extension Service and North Dakota Power Use Council, Fargo, ND 58105

Hellevang, K.J. August - 1993  
"Natural Air/Low Temperature Grain Drying - Revised"  
Extension Bulletin 35, NDSU Extension Service  
North Dakota State University, Fargo, ND 58105, 20 p.

Anderson, T.A. and Hellevang, K.J. Summer 1993  
"Radiant Floor Heating Systems"  
Electric Power Quarterly No. 136, NDSU Agricultural Engineering Department, NDSU  
Extension Service and North Dakota Power Use Council, Fargo, ND 58105, 4 p.

Anderson, T.A., Hellevang, K.J. and Hirning, H.J. Spring 1993  
"Natural Air/Low Temperature Grain Drying"  
Electric Power Quarterly No. 135, NDSU Agricultural Engineering Department, NDSU  
Extension Service and North Dakota Power Use Council, Fargo, ND 58105, 4 p.

Hellevang, K.J. 1993  
"Storage"  
Potato Production and Pest Management in North Dakota and Minnesota, Extension Bulletin 26  
(revised)  
Ag-Bu-6109-S, NDSU Extension Service,  
Minnesota Extension Service, Fargo, ND 58105, 15 p.

Hellevang, K.J. 1992  
"Drying Sunflower, Storing Sunflower"  
EB-25 Sunflower Production Handbook  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105, 4 p.

Hellevang, Backer, and Maher 1992  
"Grain Stream Sampling and Sampler Construction"  
Circular AE-1044, NDSU Extension Service  
North Dakota State University, Fargo, ND 58105, 8 p.

Wilcke, William and Hellevang, Kenneth 1992  
"Wheat and Barley Drying", AG-FS-5949-A  
Minnesota Extension Service  
University of Minnesota, St. Paul, Mn 55108, 2 p.

Hellevang, K.J. 1991  
"Hot Water Floor and Space Heating"  
Circular 1014, NDSU Extension Service  
North Dakota State University, Fargo, ND 58105, 12 p.

Hellevang, K.J., Johnson, D. and Cossette, R. 1991  
"Supplemental Woodworking Project Plans"  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105, 40 p.

Hellevang, K.J. 1991  
"Grain Moisture Content Effects and Management" (revised)  
Circular AE-905, Cooperative Extension Service  
North Dakota State University, Fargo, ND 58105 7 p.

Hellevang, K.J. Fall 1989  
"Low Temperature Grain Drying"  
Electric Power Quarterly No 120, NDSU Agricultural Engineering Department, NDSU  
Extension Service and North Dakota Power Use Council, Fargo, ND 58105, 4 p.

Hellevang, K.J. 1989  
"Crop Storage Management"  
Circular AE-791 (revised)  
North Dakota State University, Fargo, ND 58105 7 p.

Hellevang, K.J. and Smith, R.C. 1989  
"Wooden Fence Construction"  
Circular H-970, NDSU Extension Service  
North Dakota State University, Fargo, ND 58105, 7 p.

Hellevang, K.J., Hirning, H.J., and Helm, J. 1987  
"Equivalent Weights of Grains and Oilseeds"  
Circular AE-945, Cooperative Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. and Reff, T. April 1987  
"Calculating Grain Drying Cost"  
Circular AE-923, Cooperative Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J.            January 1987  
"Grain Drying"  
Circular AE-701 (revised), Cooperative Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J.            June 1986  
"Grain Moisture Content Effects and Management"  
Circular AE-905, Cooperative Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J.            1985  
"Sunflower Drying and Storage"  
Sunflower Production and Pest Management, EB-25  
(revised), Cooperative Extension Service, North Dakota State University, Fargo, ND 58105

Hirning, H.J., Hellevang, K.J., and Vogel, L.P.    Summer 1985  
"Improved Home Heating Systems"  
Electric Power Quarterly No. 104, NDSU Agricultural Engineering Department, Cooperative  
Extension Service and North Dakota Power Use Council, Fargo, ND 58105

Hellevang, K.J.            February 1985  
"Pneumatic Grain Conveyors"  
Circular AE-850, Cooperative Extension Service  
North Dakota State University, Fargo, ND 58105

Nelson, Hirning, Hellevang, and Backer.        Spring 1985  
"Crop Drying and Storage", Electric Power Quarterly No. 103,  
NDSU Agricultural Engineering Department, Cooperative Extension Service and North Dakota  
Power Use Council, Fargo, ND 58105

Nelson, E., Hirning, H., and Hellevang, K.J.    Winter 1985  
"Electrical Safety" Electric Power Quarterly No. 102, NDSU Agricultural Engineering  
Department, Cooperative Extension Service and North Dakota Power Use Council, Fargo, ND  
58105

Hirning, H.J. and Hellevang, K.J.                Winter 1984  
"Home Lighting" Electric Power Quarterly No 98  
NDSU Agricultural Engineering Department, Cooperative Extension Service and North Dakota  
Power Use Council, Fargo, ND 58105

Hellevang, K.J.            January 1984  
"Crop Storage Management" Circular AE-791  
Cooperative Extension Service, North Dakota State University, Fargo, ND 58105

Hirning, H., Hellevang, K. and Johnson D.            Fall 1983  
"Slab Heating Systems" Electric Power Quarterly No. 97  
NDSU Agricultural Engineering Department, Cooperative Extension Service and North Dakota  
Power Use Council, Fargo, ND 58105

Hellevang, K.J.            August 1983  
"Crop Dryeration and In-Storage Cooling"  
Circular AE-808, Cooperative Extension Service, North Dakota State University, Fargo, ND  
58105

Hellevang, K.J.            January 1983  
"Natural Air/Low Temperature Crop Drying," EB-35  
Cooperative Extension Service, North Dakota State University, Fargo, ND 58105

Hellevang, K.J.            October 1982  
"Grain Drying"  
Lesson 9, Bulletin CK-2, 4-H Energy Project, Energy Use on the Farm, Cooperative Extension  
Service, North Dakota State University, Fargo, ND 58105

Hellevang, K.J., Johnson, D. and Backer, L.            July 1982  
"Temporary Grain Storage on the Farm"  
Circular AE-84 (revised), Cooperative Extension Service, North Dakota State University, Fargo,  
ND 58105

Hellevang, K.J., Hirning, H.J. January 1981  
"Grain Drying" Circular AE-701, Cooperative Extension Service, North Dakota State University,  
Fargo, ND 58105

Hirning, H., Hassoun, V., and Hellevang, K. Winter 1980  
"Appliance Energy Labels" Electric Farm Power Quarterly No. 86, NDSU Agricultural  
Engineering Department, Cooperative Extension Service and North Dakota Power Use Council,  
Fargo, ND 58105

## **Building Plans**

The USDA plan was developed from the North Dakota plans. It was reviewed by the engineering staff of the Cooperative Farm Building Plan Exchange. The plan was distributed to all 50 states for use in their plans service. The North Dakota plans were peer reviewed by engineers with extensive potato storage expertise.

Hellevang, K.J., Johnson, D., Schaper, L. Yeck, R.            1988  
"68,000 to 86,000 CWT Insulated Potato Storage"  
USDA Cooperative Farm Building Plan Exchange Plan 6398  
University of Maryland, 11 p.

Hellevang, K., Johnson, D. Schaper, L. July 1987  
"Potato Storage - 68,000 cwt, 80' x 172', Single Ext. Wall  
(Cross-Alley), Plan: ND 734-6-0"  
Extension Agricultural Engineering and RRV Potato Growers Association, North Dakota State  
University, Fargo, ND 58105

Hellevang, K., Johnson, D., Schaper, L. July 1987  
"Potato Storage - 86,000 cwt, 80' x 204', Single Ext. Wall  
(Cross-Alley), Plan: ND 734-6-1"  
Extension Agricultural Engineering and RRV Potato Growers Association, North Dakota State  
University, Fargo, ND 58105

Hellevang, K., Johnson, D., Schaper, L. July 1987  
"Potato Storage - 86,000 cwt, 88' x 204', Double Ext. Wall  
(Cross-Alley), Plan: ND 734-6-2"  
Extension Agricultural Engineering and RRV Potato Growers Association, North Dakota State  
University, Fargo, ND 58105

### **Videotape Programs**

Hellevang, K.J. (coordinator & speaker: 12 min.) 1998  
"Molds in Homes: Health Effects, Ecology, Detection, & Mitigation"  
Videotape Program, 55 min.  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K. J. 1997  
"Grain Storage Mgmt. for Fumigation Training"  
Videotape 30 min.  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 1995  
"Grain Storage Management, Fumigation Certification," 30 min.  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 1994  
"Edible Bean Drying and Storage," 20 min.  
Northharvest Bean Day, NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 1993  
"Post Harvest Tips for 1993 Grain"  
Videotape Program, NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 1992  
"1992 Post Harvest Management"  
Videotape Program, NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 1990  
"1990 Crop Conditioning and Storage Conference"  
Videotape Program, NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J., Rostad, J. 1988  
"Grain Storage Management"  
1988 Wheat Series Videotape, NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J., Rostad, J. 1988  
"Designed Airflow for Quality Grain"  
Videotape Program, NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J., Hirning, H.J. 1983  
"Introduction to Natural Air Drying"  
Educational Video Presentation, Cooperative Extension Service,  
North Dakota State University, Fargo, ND 58105

### **Web Power Point/Slide/Audiotape/Script Programs**

Hellevang, Kenneth 2007  
"Corn Drying and Storage"  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, Kenneth 2003  
"Corn and Soybean Drying and Storage"  
<http://www.ag.ndsu.nodak.edu/abeng/csds/index.htm>  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, Kenneth 2001  
“Controlling Home Moisture for Indoor Air Quality”  
<http://www.homemoisture.org/presentations.htm>  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, Kenneth and Noreen Thomas 2001  
“Mold in Your Home”  
<http://www.homemoisture.org/presentations.htm>  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, Kenneth and Noreen Thomas 2001  
“Keep Your Home Healthy”  
<http://www.homemoisture.org/presentations.htm>  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 1994  
“Natural Air/Low Temperature Grain Drying”  
Slide/Script Program  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 1984  
"Crop Storage Management"  
Slide/Tape Educational Package, Cooperative Extension Service,  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 1982  
"Energy Use In Crop Drying and Storage"  
Educational Slide/Tape Package, Cooperative Extension Service,  
North Dakota State University, Fargo, ND 58105

### **Other Publications**

Harvesting, Drying and Storing Malting Barley, Hellevang, Kenneth and Nowatzki, John 2007  
The American Malting Barley Association and the NDSU Institute of Barley and Malt Sciences  
It was reviewed by several members of AMBA, IBMS, and equipment manufacturers  
[http://www.ag.ndsu.edu/ibms/Harvesting\\_08\\_07\\_07.pdf](http://www.ag.ndsu.edu/ibms/Harvesting_08_07_07.pdf)

McMullen, Marcia, Hellevang, Ken and Stoltenow, Charles 2001  
“Dealing with Scabby Grain, Vomitoxin”  
NDSU Extension Service Fact Sheet  
North Dakota State University, Fargo, ND 58105

Hellevang, Kenneth 2001  
“Keep Your Home Healthy,” Poster  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105  
(Distributed to 52 USDA-CSREES state contacts)

Hellevang, K.J. 1999  
“Cool Grain to Prevent Storage Problems,” Poster  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105 2000 copies

Hellevang, and et. al 1997  
“Cleaning Your Water Damaged Home”  
NDSU Extension Service Fact Sheet  
North Dakota State University, Fargo, ND 58105 2 pgs.

Hellevang, K. J. 1997  
“Drying Wood Before Rebuilding”  
NDSU Extension Service Fact Sheet  
North Dakota State University, Fargo, ND 58105 2 pgs.

Hellevang, K. J. 1997  
“Fencing Costs”  
NDSU Extension Service Fact Sheet  
North Dakota State University, Fargo, ND 58105 1 pg.

Hellevang, and et. al 1997  
“Steps to Reduce Flood & Water Damage”  
NDSU Extension Service Fact Sheet  
North Dakota State University, Fargo, ND 58105 2 pgs.

Hellevang, K. J. 1997  
“Livestock Buildings and Facilities After a Severe Winter”  
NDSU Extension Service Fact Sheet  
North Dakota State University, Fargo, ND 58105 2 pgs.  
(The fact sheet was distributed to all livestock producers in ND as part of a group of fact sheets)

Hellevang, K.J. 1996  
ASAE Educational Aids Competitors List and Awards Summary Booklet  
ASAE  
St. Joseph, MI 10 p.

Hellevang, K.J. May 1994  
North Dakota MWPS Plans Index, 4 p.  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. May 1994  
NDSU Plans Professional Service Notice, 1 p.  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. (Editor & Author) December 1993  
ND Power Use Council 36th Annual Report, 19 pgs.  
Agricultural Engineering Department  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. September 1993  
"Moisture Control Features for a Concrete Basement Wall"  
Fact Sheet, NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. August 1993  
"Drying, Storage, and Cleaning of Scab and Vomitoxin Affected Wheat", Fact Sheet, NDSU  
Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. June 1984  
"Hay Storage"  
Informational Leaflet, 13-AENG 2-4.3, Cooperative Extension Service, North Dakota State  
University, Fargo, ND 58105

Hellevang, K.J. September 1983  
"Crop Drying Cost"  
Informational Leaflet 13-AENG 2-1, Cooperative Extension Service, North Dakota State  
University, Fargo, ND 58105

Hellevang, K.J. 1982 AE Field Day  
"Grain Moisture Meters"  
Information Sheet 13-AENG 2-1, Cooperative Extension Service, North Dakota State  
University, Fargo, ND 58105

Hellevang, K.J. 1982 AE Field Day  
"Pneumatic Grain Conveyors"  
Information Sheet 13-AENG 2-3, Cooperative Extension Service,  
North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 1982 AE Field Day  
"Airflow Through Grain Bins"  
Information Sheet 13-AENG 2-3.1, Cooperative Extension Service, North Dakota State University, Fargo, ND 58105

Hellevang, K.J., Fanning, B. 1981 Field Day  
"Flowing Grain Entrapments"  
Information Sheet 10-SAF-4, Cooperative Extension Service,  
North Dakota State University, Fargo, ND 58105

## **eXtension**

Floods: Water-Inflated Barriers , Hellevang, February 10, 2008  
[http://www.extension.org/pages/Floods:\\_Water-Inflated\\_Barriers](http://www.extension.org/pages/Floods:_Water-Inflated_Barriers)

Floods: Sandbagging for Flood Protection , Hellevang, February 14, 2008  
[http://www.extension.org/pages/Floods:\\_Sandbagging\\_for\\_Flood\\_Protection](http://www.extension.org/pages/Floods:_Sandbagging_for_Flood_Protection)

Floods: Water Against a Building, Hellevang, February 11, 2008  
[http://www.extension.org/pages/Floods:\\_Water\\_Against\\_a\\_Building](http://www.extension.org/pages/Floods:_Water_Against_a_Building)

Floods: Steps to Reduce Flood and Water Damage, Hellevang, February 14, 2008  
[http://www.extension.org/pages/Floods:\\_Steps\\_to\\_Reduce\\_Flood\\_and\\_Water\\_Damage](http://www.extension.org/pages/Floods:_Steps_to_Reduce_Flood_and_Water_Damage)

Floods: Closures for Flood Protection, Hellevang, February 11, 2008  
[http://www.extension.org/pages/Floods:\\_Closures\\_for\\_Flood\\_Protection](http://www.extension.org/pages/Floods:_Closures_for_Flood_Protection)

I wrote approximately 50 frequently asked questions listed at  
<http://www.extension.org/disasters/faqs>

## **Web Sites**

The web offers a convenient method for extension engineers to serve clientele with information at the convenience of the clientele, 24 hours per day 7days a week. It is also a method of serving more clientele than could be done with traditional methods. I developed and organized the material and hired a programmer to help create a web site to serve our extension clientele. The Extension ABEN site, <http://www.ag.ndsu.nodak.edu/abeng/> in 2008 had 1,580 average successful requests for pages per day for a total of 578,460 pages with requests from 461,988 distinct hosts. The most popular part of the site is the plans section. There are about 1,000 building and facility plans categorized by livestock species, crops, housing and machinery that can be downloaded. The web site was recognized with an educational aids blue ribbon from ASAE, the Society for engineering in agricultural, food, and biological systems.

Hellevang, K.J. 2001

HomeMoisture.org.

The site includes extensive information on: Home Moisture, Indoor Air Quality, Mold, Coping With Disasters, General Housing, Keep Your Home Healthy, Care For People, Presentations, and Contacts

NDSU Extension Service

North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 2000

Your Home: Structure & Environment resource site and Extension ABEN Home Page revision

Website: <http://www.ag.ndsu.nodak.edu/abeng>

NDSU Extension Service

North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 1999

Website: <http://www.ag.ndsu.nodak.edu/abeng>

Extension ABEN Home Page, Personnel pages, Calendar, Programs, News Releases, Building Plans (listing and 1,000 plans available in pdf format), Publications (NDSU, MWPS, 750 links), Postharvest Resource Center(100 pubs. & links), and Indoor Air Quality Resource Center.

NDSU Extension Service

North Dakota State University, Fargo, ND 58105

## **Technical Articles**

1988-93

"Drying and Storing Wheat"

Hard Red Spring and Durum Wheat Production Guide

NDSU Extension Service, Fargo, ND 58105

1996

"Air Temperature Increase due to Drying Fans"

1986-87

"Stored Grain Management"

1985

"Sunflower and Corn Drying"

1980

"Energy Conservation in Crop Processing"

N.D. Crop Production Guide

ND Ag Association

## **Newsletters**

Aug 98 GrainTech Newsletter 2 pgs 700 distributed

Nov 98 Agricultural & Biosystems Engineering Dept.  
Newsletter, Editor/Author, 12 pgs, 1,500 copies

Feb 97 Agricultural & Biosystems Engineering Dept.  
Newsletter, Editor/Author, 12 pgs, 1,500 copies

May 96 Ag. Engineering Dept. Newsletter, Editor/Author,  
12 pgs, 1,500 copies

Sep 96 Grain Tech 800 agribusinesses

Apr 95 Ag. Engineering Dept. Newsletter, Editor/Author,  
12 pgs, 1,500 copies

Jul 95 Grain Tech 800 agribusinesses

Hellevang, K.J.

Grain Tech-Post Harvest Technology Letter (4 pages)

Issue 3 December 1992 Distribution 800

Issue 2 August 1992

Issue 1 March 1992

## **Lesson Plans**

Hellevang, Kenneth and Thomas, Noreen 2001  
Keep Your Home Healthy Lesson & Visuals  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105

Hellevang, Kenneth and Thomas, Noreen 2001  
Mold in Your Home Lesson & Visuals  
NDSU Extension Service  
North Dakota State University, Fargo, ND 58105