September 27, 2017

**Dr. Hellevang's Publications**

**Professional Engineering Standards**

I helped to write the standard.

Hellevang, K.J., et al. 2017

"Design and Management of Storages for Bulk, Fall-Crop, Irish Potatoes", ASAE Engineering Practice: ASABE EP475.1, Standards, Engineering Practices, and Data

American Society of Agricultural and Biological Engineers

2950 Niles Road, St. Joseph, MI 49085-9659, 4 p.

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, K., Maier, D., McNeill, S. Ambrose, K., Lieleji, K., Jones, C. and Purschwitz, M., 2017

Grain Drying, Handling, and Storage Handbook, MWPS-13, Third Edition, 150 pgs.

Midwest Plan Service, Iowa State University

Ames, Iowa 50011

Hellevang, Kenneth, Powell, Morgan, and Koenig, Bill 2006

Foundations (pages. 135-153)

In: *MWPS-16 The House handbook: Guidelines for Building or Remodeling Your Home*

Midwest Plan Service, Iowa State University, Ames, Iowa

Greiner, Tom; Koenig, Bill and Hellevang, Kenneth 2006

House Utilities (pages 155-179)

In: *MWPS-16 The House handbook: Guidelines for Building or Remodeling Your Home*

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 was 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**

Vegetable Storage Systems, Jun 2016

Hellevang, Kenneth

In: Encyclopedia of Agricultural, Food, and Biological Engineering, Second Edition

CRCnetBase

Vegetable Storage Systems, Pages 1796–1803, Jun 2010

Hellevang, Kenneth

In: Encyclopedia of Agricultural, Food, and Biological Engineering, Second Edition

CRC Press

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.

**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

**Online Courses**

Hellevang, Kenneth and Sandford, Scott 2012

Energy Efficient Grain Drying,

ECON2C, On-Farm Energy Conservation and Efficiency, BioEnergyTraining,

University of Wisconsin, <http://fyi.uwex.edu/biotrainingcenter>,

<http://blogs.extension.org/encon1/modules/encon2-farm-practices-to-improve-energy-efficiency/unit-2-3-grain-drying/>

GEAPS 521 - Aeration System Design and Operational Management

Developed two sessions - design of aeration for flat storages and aeration design for outdoor grain piles. Each session consisted of peer reviewed one-hour long voiced Power Point lectures. Dirk Maier was the lead organizer and Kansas State University has the contract with the Grain Elevator and Processing Society, GEAPS.

**Extension Publications - 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 are 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, structural investment and human health.

Drying and Storage, pgs. 49-56

Field Guide to Sustainable Production of High-quality Durum Wheat in North Dakota, A1825

NDSU Extension Service, May 2017

Harvest, Drying, Handling, and Storing Field Peas

Field Pea Production Guide (A1166)

NDSU Extension Service

April 2016

Electric Backup Sump Pumps for Houses, AE-1771

Scherer and Hellevang,

NDSU Extension Service, Aug 2015

Consider Pros, Cons of Alternative Grain Storage Methods, Aug 2015

Ken Hellevang, NDSU Extension Service, Fact sheet

Reconditioning Soybeans, October 2015

Ken Hellevang, NDSU Extension Service, Fact sheet

Hellevang, Kenneth January 2013

AE-1102, Caught in the Grain - Revised

NDSU Extension Service

Hellevang, Kenneth Jan 2013

Lentil Drying and Storage, pgs. 19-21

In: Growing Lentil in North Dakota, A-1636

NDSU Extension Service, Fargo, ND

Hellevang, Kenneth – Technical Review/ Revision, January 2013

AE-1044 Grain Stream Sampling and Sampler Construction

NDSU Extension Service

Hellevang, Kenneth and Pedersen, Carl June 2013

Home Envelope: an energy guide to help you keep the outside out and the inside in - AE1616

NDSU Extension Service, 44 pages

Hellevang, Kenneth June 2013

Keep Your Home Healthy - AE1204 8 pgs.

NDSU Extension Service

Hellevang, Kenneth June 2013

Heating Farm Shops, AE 1620

NDSU Extension Service

Drying and Storing Soybeans, Pgs. 19-21

New Jersey Soybean Handbook, 2015 edition

New Jersey Soybean Board and Rutgers University

Hellevang, Kenneth and Pedersen, Carl February 2012

Fuel Cost Comparison, AE-1015 Revised,

NDSU Extension Service, Fargo, ND

<http://www.ag.ndsu.edu/pubs/ageng/structu/ae1015.pdf>

Hellevang, Kenneth Sep 2011

Prepare Flood-damaged Homes for Winter, AE-1594

NDSU Extension Service

http://www.ag.ndsu.edu/pubs/ageng/structu/ae1594.pdf

Hellevang, Kenneth, June 2011

Preparing a Home that will be Flooded, DE-1569,

NDSU Extension Service, Fargo, ND

Hellevang, Kenneth June 2011

Dealing with Continuing Basement Seepage, DE-1570

NDSU Extension Service, Fargo, ND

Hellevang, Kenneth, June 2011

Canola Drying and Storage Management

In: Canola Production Field Guide, pgs. 93-100

NDSU Extension Service, Fargo, ND 58101

Hellevang, K. and Koch, B., May 2011

Flood Recovery Checklists for Farmsteads, DE-1562,

NDSU Extension Service, Fargo, ND

Hellevang, K, et. al. February 2011

Flood Recovery Checklists DE-1519

Wrote several portions of the booklet

NDSU Extension Service, Fargo, ND 58101

Hellevang, Kenneth, Feb 2011

Sandbagging for Flood Protection, AE-626, Revised

NDSU Extension Service, Fargo, ND

Hellevang, Kenneth, Jan 2011

Stacking Sandbags, DE1523, Poster,

NDSU Extension Service, Fargo, ND

Hellevang, Kenneth, Jan 2011

Filling Sandbags, DE1524, Poster,

NDSU Extension Service, Fargo, ND

Carl Pedersen and Kenneth Hellevang November 2010

Preparing RVs for Winter Living, AE-1510

NDSU Extension Service, Fargo, ND 58101

Hellevang, K, et.al.

Corn Ear Molds**:** Basic Questions and Answers, PP-1451, Nov 2009

NDSU Extension Service, Fargo, ND 58108

Hellevang, Kenneth April 2009

Remove Mold for a Healthy Home, AE-1202(Revised),

NDSU Extension Service

North Dakota State University, Fargo, ND 58105

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

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

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

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.

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North Dakota State University, Fargo, ND 58105

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Sunflower Production, EB 25 (Revised)

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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

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North Dakota State University, Fargo, ND 58105

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“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.

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"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

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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

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North Dakota State University, Fargo, ND 58105

Hellevang, K.J. June 1986

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North Dakota State University, Fargo, ND 58105

Hellevang, K.J. 1985

"Sunflower Drying and Storage"

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(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,

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Nelson, E., Hirning, H., and Hellevang, K.J. Winter 1985

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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

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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

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"Crop Dryeration and In-Storage Cooling"

Circular AE-808, Cooperative Extension Service, North Dakota State University, Fargo, ND 58105

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"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

**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.

**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, Webinar and Slide/tape Programs**

Electric Backup Sump Pumps for Houses, June 2016

https://www.youtube.com/watch?v=PPQvjRFVtxo

Energy Efficient Grain Drying, June 2014

https://www.youtube.com/watch?feature=player\_embedded&v=jpD-nCyRAT4

Grain Dryer Energy Audit, June 2014

https://www.youtube.com/watch?feature=player\_embedded&v=zJQCmFj1Kiw

Preparing to evacuate your home when flooding is imminent

Preparing your liquid propane tank

http://youtu.be/0QiK-EuxnnY

https://www.youtube.com/watch?feature=player\_detailpage&v=0QiK-EuxnnY

Turn off electrical power

http://youtu.be/iT-lYUoMGTs

Turn off natural gas

https://www.youtube.com/watch?feature=player\_detailpage&v=GMKUguGxTPs

Turn off the water

http://youtu.be/B46lDtn08rQ

Preparing a fuel oil tank indoors

http://youtu.be/jyST5-JZ6WI

Hellevang, Kenneth, Jan 2012

Understanding Airflow Principles to Properly Select Grain Bin Fans, 22-min. Video

NDSU Extension Service, Fargo, ND

<http://www.youtube.com/watch?v=q620PI_YkOQ>

Hellevang, Kenneth, Jan 2012

Grain Drying and Storage Fan Characteristics, 10-min. Video

NDSU Extension Service, Fargo, ND

<http://www.youtube.com/watch?v=QIRcjF2Wc18>

Hellevang, Kenneth, Jan 2012

Fan Selection for Grain Drying and Storage, 31 minute Video

NDSU Extension Service, Fargo, ND

<http://www.youtube.com/watch?v=McPGPsgGRsM>

Hellevang, Kenneth June 2011

## Improving Grain Drying Energy Efficiency, 60-minutes

eXtension.org

<http://www.extension.org/pages/58797/agricultural-energy-efficiency-professional-development-webinar-series#Improving%20Grain%20Drying%20Energy%20Efficiency>

Hellevang, Kenneth December 2012

Soybean Storage, 24-minutes

Plant Management Network

<http://www.plantmanagementnetwork.org/edcenter/seminars/soybean/soybeanstorage/>

Hellevang, Kenneth, June 2011

Corn Drying, 28 minutes

<http://www.plantmanagementnetwork.org/edcenter/seminars/corn/Drying/>

Hellevang, Kenneth, Oct 2011

Corn Storage, 35 minutes,

<http://www.plantmanagementnetwork.org/edcenter/seminars/corn/Storage/>

Plant Management Network (PMN) is a not-for-profit, online publishing effort whose mission is to enhance the health, management, and production of agricultural and horticultural crops. PMN achieves this mission by developing science-based resources that help researchers, crop management professionals, consultants, growers, educators, and students make better plant management decisions and recommendations. PMN is jointly managed by the [American Phytopathological Society](http://www.apsnet.org/), [American Society of Agronomy](https://www.agronomy.org/), and [Crop Science Society of America](https://www.crops.org/), in conjunction with many [other partners](http://www.plantmanagementnetwork.org/partners/profile/), including scientific societies, agricultural universities, and agribusiness.

Hellevang, Kenneth, July 2011

Cleaning Your Flooded Home, 5-part series, Each section is 12-18 minutes in length.

<https://www.youtube.com/watch?v=FpXxJH9egc8>

<https://www.youtube.com/watch?v=eQOU6S0Ck9k>

<https://www.youtube.com/watch?v=jY9JcIR2aeQ>

<https://www.youtube.com/watch?v=Wg1QzzWzz-Y>

<https://www.youtube.com/watch?v=y9NJqwx3Adk>

Hellevang, Kenneth, February 15, 2011

Safely using Portable Generators for Emergency Electrical Power

14:15 minutes

NDSU Extension Service, Fargo, ND

<http://www.youtube.com/watch?v=LPEQvPbuE3o&feature=plcp&context=C39038daUPOEgsToPDskJ3S_AzdbnMGjX3Jv2xd7CO>

Hellevang, Kenneth 2009

“Building a Sandbag Dike”

NDSU Extension Service

North Dakota State University, Fargo, ND 58105

Hellevang, Kenneth 2009

“Restoring Flooded Buildings” 25 minutes

NDSU Extension Service

North Dakota State University, Fargo, ND 58105

Hellevang, Kenneth 2009

“Using a Moisture Meter Before Rebuilding”

NDSU Extension Service

North Dakota State University, Fargo, ND 58105

Hellevang, Kenneth 2009

“Restoring Flooded Buildings – A Home Owners Next Steps”

1-hour presentation on DVD being used by cable television

NDSU Extension Service

North Dakota State University, Fargo, ND 58105

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, 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”

NDSU Extension Service

North Dakota State University, Fargo, ND 58105

<http://www.ag.ndsu.nodak.edu/abeng/csds/index.htm>

Hellevang, Kenneth 2001

“Controlling Home Moisture for Indoor Air Quality”

NDSU Extension Service

North Dakota State University, Fargo, ND 58105

Hellevang, Kenneth and Noreen Thomas 2001

“Mold in Your Home”

NDSU Extension Service

North Dakota State University, Fargo, ND 58105

Hellevang, Kenneth and Noreen Thomas 2001

“Keep Your Home Healthy”

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.

Northarvest Bean Day, 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. 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. 1984

"Crop Storage Management"

Slide/Tape Educational Package, Cooperative 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

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

**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.

**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

**eXtension**

[Floods: Water-Inflated Barriers](http://www.extension.org/pages/Floods%3A_Water-Inflated_Barriers) , Hellevang, February 10, 2008

http://www.extension.org/pages/Floods:\_Water-Inflated\_Barriers

[Floods: Sandbagging for Flood Protection](http://www.extension.org/pages/Floods%3A_Sandbagging_for_Flood_Protection) , Hellevang, February 14, 2008

<http://www.extension.org/pages/Floods:_Sandbagging_for_Flood_Protection>

[Floods: Water Against a Building](http://www.extension.org/pages/Floods%3A_Water_Against_a_Building), Hellevang, February 11, 2008

<http://www.extension.org/pages/Floods:_Water_Against_a_Building>

[Floods: Steps to Reduce Flood and Water Damage](http://www.extension.org/pages/Floods%3A_Steps_to_Reduce_Flood_and_Water_Damage), Hellevang, February 14, 2008

<http://www.extension.org/pages/Floods:_Steps_to_Reduce_Flood_and_Water_Damage>

[Floods: Closures for Flood Protection](http://www.extension.org/pages/Floods%3A_Closures_for_Flood_Protection), Hellevang, February 11, 2008

<http://www.extension.org/pages/Floods:_Closures_for_Flood_Protection>

I wrote approximately 75 frequently asked questions listed at http://www.extension.org/disasters/faqs

**Other Publications**

NDSU Flood Information Website

Publications or factsheets

* Steps to Reduce Flood and Water Damage
* Reduce Flooding from Drains
* [Cleaning and Repairing Flooded Basements](http://www.ag.ndsu.edu/disaster/flood/cleaningandreparingfloodedbasements.html)
* [Cleanup of Residential Oil Spills Associated with Flooding](http://www.ag.ndsu.edu/disaster/flood/CleanupofResidentialOilSpills.html)
* [Flooded Electrical Systems and Appliances](http://www.ag.ndsu.edu/disaster/flood/FloodedElectricalSystemsandAppliances.html)
* Remove Mold for a Healthy Home
* Salvaging Stored Wet Feed and Grain

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>

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. May 1994

North Dakota MWPS Plans Index, 4 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

**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. 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.

Articles and presentations are continually added to the web sites.

<http://www.ag.ndsu.edu/extension-aben/>

<http://www.ag.ndsu.edu/extension-aben/post-harvest>

<http://www.ag.ndsu.edu/homemoisture>

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

**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), Distribution 800

Issue 3 December 1992

Issue 2 August 1992

Issue 1 March 1992