
Abbreviations

AAA	Animal Agriculture Alliance
AB	Animal Biotechnology
ADDS	Agricultural Databases for Decision Support
ADSA	American Dairy Science Association
AES	Agricultural Experiment Station
AFE	Agriculture, Food and Environment
AFIA	American Feed Industry Association
AI	artificial insemination
AMP	Adenosine model phosphate
AMSA	American Meat Science Association
ANSC	Designator for Animal Science courses
APL	Area Program Leaders
APV	Avian Pneumovirus
ARPAS	American Registry of Professional Animal Scientists
ARS	Agriculture Research Service
AS/VM	Animal Science Veterinary Medicine Building
ASAS	American Society of Animal Science
ASAE	American Society of Agricultural Engineers
ATPase	Adenosine triphosphate
BAC	Bacterial Artificial Chromosome
BAE	BioSystems and Agricultural Engineering
BARD	Binational Agricultural Research and Development Fund
BEAM	Broiler and Egg Association of Minnesota
BIOC	Biochemistry Department
bsT	bovine somatotropin
BTAY	bovine Y chromosome
BTSCC	bulk tank somatic cell count
CAPS	Clinical and Population Sciences (now - Veterinary Clinical Sciences)
CAST	Council for Agricultural Science and Technology
CBS	College of Biological Sciences
CEE	Continuing Education and Extension
CEF	chicken embryo fibroblast
CFAR	Centers for AIDS Research
CFTR	Cystic Fibrosis Transmembrane conductance regulator
CHAPS	Cow Herd Appraisal of Performance Software
CIDR	Center for Inherited Disease Research
COAFES	College of Agricultural, Food and Environmental Sciences
COOL	County-Of-Origin-Labeling
CP	Crude Protein
CRADA	Cooperative Research and Development Agreement
CSREES	Cooperative State Research, Education, and Extension Service
CVM	College of Veterinary Medicine
CWD	Chronic Wasting Disease
DAS	Department of Animal Science
DDGS (or DDGs)	Distiller's Dried Grains with Solubles

DGS	Director of Graduate Studies
DHI (or DHIA)	Dairy Herd Improvement Association
DM	Dry matter
DPEP	Dairy Profitability and Enhancement Program
DUGS	Director of Undergraduate Studies
EAAP	European Association for Animal Production
EGMS	Electronic Grants Management System
ELMS	Extension Learning Management System
EPDs	Expected Progeny Difference
EST	Expressed Sequence Tags
ET	Enterprise Tax
ETEC	enterogenic Escherichia coli
F1	Failure one
F2	Failure two
FASEB	Federation of American Societies for Experimental Biology
FASS	Federation of Animal Science Societies
FCC	Faculty Consultative Committee
FSH	folical stimulating hormone
FTE	Full time equivalent
FY	Fiscal Year
GDF	Growth/differentiation factor
GEIS	Generic environmental impact statement
GH	growth hormone
GIS	Geospatial Information System
GnRH	gonadotropin-releasing hormone
GRF	growth hormone releasing factor
GTCG	granulosa-theca cell tumors
HME	human mammary epithelial
ICR	Indirect Cost Recovery
IFAS	Institute of Food and Agricultural Sciences
IGFPB	Insulin-Like Growth Factor Binding Protein
IMG	Incentives for Managed Growth
IPVS	International Pig Veterinary Society
IRB	Interdisciplinary Reproductive Biology Group
IREE	Initiative for Renewable Energy and the Environment
IRM	Intelligent Relationship Management
IRS	Institutional Revenue Sharing
ISAE	International Symposium on Avian Endocrinology
ISO	Internal Sales Organization
ISSS	International Students and Scholars Services
ITV	Interactive Television Courses
LCMR	Legislative Commission on Minnesota Resources
LE	Liberal Education
LEEs	local extension educators
LH	luteinizing hormone
LCP	Local County Program
MAES	Minnesota Agricultural Experiment Station
MAPK	Mitogen-Activated-Protein-Kinase
MBIC	Minnesota Beef Industry Center
MCFD	Minnesota Cattle Feeder Days

MDA	Minnesota Department of Agriculture
MDB	micronized dehulled barley
MDH	MN Dept of Health
MDI	Minnesota Dairy Initiative
MEC	Mammary Epithelial Cell
MES	Minnesota Extension Service
MGA	melengestrol acetate
MIG	management intensive grazing
MISA	Minnesota Institute for Sustainable Agriculture
MKP-3	MAP kinase phosphatase 3
MMA	Minnesota Medical Association
MMP-13	matrix metalloproteinase 13
MMPA	MN Milk Producers Association
MPC	Midwest Poultry Consortium
MPCA	Minnesota Pollution Control Agency
MPPA	Minnesota Pork Producers Association
MPRP	Midwest Poultry Research Program
MS	Masters of Science
MSCA	Minnesota State Cattlemen's Association
MTGA	Minnesota Turkey Growers Association
MTRPC	MN Turkey Research and Promotion Council
MVB	Molecular Veterinary Biosciences
NACTA	North American colleges and teachers of agriculture
NADPH	nicotinamide adenine dinucleotide
NCGA	National Corn Growers Association
NCI	National Cancer Institute
NCR	North Central Region
NCROC	North Central Research and Outreach Center
NDF	neutral detergent fiber
NIH	National Institutes of Health
NPPC	National Pork Producers Council
NRC	National Research Council
NRI	National Research Initiative
NSERC	Natural Sciences and Engineering Research Council
NWROC	North West Research and Outreach Center
O&M	Operations and Maintenance
OST-PTP	osteotesticular - phosphotyrosine protein
P2Y	purinergic receptor 2
PDHGA	Professional Dairy Heifer Growers Association
PEM	porcine embryonic myoblast
PEP	processed erythrocyte protein
PGF	placental growth factor
PGF2	Prostaglandin F2
PHSL	Medical and Molecular Physiology
PKC	protein kinase C
PMNs	polymorphonuclear neutrophils
PRL	Prolactin
PSA	Poultry Science Association
QA	Quality Assurance
QTL	Quantitative Trait Loci
RA	Research Assistant (or refers to assistantship)

rbST	Recombinant Bovine Somatotropin
REE	Regional Extension Educator
RFP	Request for Proposal
ROC	Research and Outreach Center
SACS	Small Animal Clinical Sciences (now Veterinary Clinical Sciences)
SCC	somatic cell count
SCH	Student Credit Hour
SDAP	spray dried animal plasma
SPC	Statistical Process Control
SDPP	spray dried porcine plasma
SE&E	Supplies, Expenses and Equipment
SNP	Single nucleotide polymorphism
SROC	Southern Research and Outreach Center
SSR	Society for the Study of Reproduction
SWAP	Swine Welfare Assessment Program
SWOT	Strengths, Weaknesses, Opportunities, and Threats
TA	Teaching Assistant (or refers to assistantship)
TGF	transforming growth factor
tLH-R	turkey luteinizing hormone receptor
TMR	Total Mixed Ration
U of MN (M)	University of Minnesota
UG	Undergraduate
UMORE Park	University of Minnesota Outreach, Research and Education Park
USPEA	US Poultry and Egg Association
UTP	uridine triphosphate
VBS	Veterinary and Biomedical Sciences
VDL	Veterinary Diagnostic Laboratories
VIP	vasoactive intestinal peptide
VL	ventilation laboratory
VMED	Veterinary Medicine Graduate Program
VNS	Video Networking Systems
VPM	Veterinary Population Medicine
VRE	VIP response element
WCROC	West Central Research and Outreach Center
WI	Writing Intensive