Kansas Agricultural Experiment Station Research Reports

Volume 0 Issue 12 *Keeping up with Research*

Article 4

2001

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Recommended Citation

Schofield, Eileen K. (2001) "Acronyms Used in Agricultural Literature (2001)," *Kansas Agricultural Experiment Station Research Reports*: Vol. 0: Iss. 12. https://doi.org/10.4148/2378-5977.7241

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ACRONYMS USED IN AGRICULTURAL LITERATURE

Eileen K. Schofield*

An acronym is defined as a word formed from the initial letters of each of the successive parts or major parts of a compound term. We're used to seeing them printed in capital letters, for example, NATO to replace North Atlantic Treaty Organization. However, the word radar is a true acronym derived from "radio detecting and ranging." An abbreviation is a shortened form of a word or name that does not make a new word, for example, KS or Kans. The term initialism has been proposed for the category in between: an abbreviation that is composed of the initial letters of the parts in a compound term but cannot be pronounced as a word. A familiar example is USDA to replace United States Department of Agriculture. However, initialism has not been accepted widely, and most people continue to refer to such abbreviations as acronyms. The definition of acronym has been expanded further to include abbreviations based on syllables of one word, for example, HP for horsepower, or a combination of syllables and initial letters, for example, PVC for polyvinyl chloride. Although most acronyms in all categories are printed in capital letters, the words they represent should be capitalized only if they are proper names.

Most areas of agricultural research have a set of accepted acronyms for commonly used terms. Authors also can make up acronyms for treatment groups, variables tested, and/or responses. Because using too many of these along with the standard acronyms can reduce readability, some publishers ask authors to avoid them. Acronyms sometimes are not defined, and most cannot be found in a dictionary.

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I compiled a list over a period of 3 years while editing manuscripts dealing with more than 20 subjects in agriculture and related areas. The list includes acronyms of all categories defined above that are used frequently in those subjects. The same acronym sometimes is used for more than one term but in different subject areas. Less frequently, two acronyms are used for the same term. To avoid repetition, some secondary meanings of acronyms are shown in parentheses. Additional words to clarify the meanings are shown in brackets. The list does not include acronyms made up for specific studies, those for agencies (NSF) or companies (IBM), or chemical abbreviations (N for nitrogen). Capitalized terms are proper nouns, such as the names of industry or government programs, procedures, systems, or people or trade names. All agricultural areas may not be represented equally, because I saw fewer manuscripts from some. Also, printing limitations determined the final number of acronyms that could be included in this publication. So this is not an exhaustive list, but I hope it will be useful to editors, county agents, producers, and anyone else who reads agricultural literature.

AA-amino acid, ascorbic acid ABA-abscisic acid ACTH-adrenocorticotropic hormone ADF-acid detergent fiber ADFI-average daily feed intake ADG—average daily gain ADIA—acid detergent insoluble ash ADICP—acid detergent insoluble crude protein ADIN-acid detergent insoluble nitrogen ADP-adenosine diphosphate AE—acid equivalent, assimilation efficiency AET—actual evapotranspiration AFDM—acid-free (ash-free) dry mass AFLP-amplified fragment length polymorphism AFO—animal feeding operation AGP-acid glycoprotein AI-artificial insemination, active ingredient, artificial intelligence AM—arbuscular mycorrhiza (mycorrhizal) AMD-age-related macular degeneration AMP-antimicrobial peptide ANN-artificial neural network ANOVA—analysis of variance ANU—apparent nitrogen uptake AO—Aspergillus oryzae [Latin name of fungus] AOC—analysis of covariance (also ANCOVA) APC-aerobic plate count ASD—aggregate size distribution ATP-adenosine triphosphate AU-animal unit AUDPC—area under disease progress curve AV-apparent viscosity

BC-body condition BCAA-branched-chain amino acid BCS-body condition score BCV-bovine coronavirus BGM—Banks grass mite BHI-brain heart infusion [broth] BHV-1-bovine herpes virus-1 BMI-body mass index BMP-best management practice BOD-biological oxygen demand BRV-bovine rotavirus BUN-blood urea nitrogen BVD-bovine viral diarrhea BVDV-bovine viral diarrhea virus BW-body weight BYDV-barley yellow dwarf virus CA—cluster analysis CAO—concentrated animal operation CAT-catalase, chloremphenicol actyl transferase CEA—cost-effectiveness analysis CEC—cation exchange capacity CER-cost-effectiveness ratio CEW-corn earworm CFU-colony-forming unit CI-confidence interval CL-corpus luteum (corpora lutea), confidence limit CNS-central nervous system COC-crop oil concentrate CP-crude protein, capsid protein CPC-coliform plate count CPE—crude protein equivalent CRD-completely randomized design CRP—Conservation Reserve Program CSB-concentrated separator by-product CT—conventional tillage CV-coefficient [of] variation DA-discriminant analysis DAP-days after planting DAT-days after treatment DBH-diameter [at] breast height DDM-digestible dry matter DE-digestible energy DF-dry flowable DHI–Dairy Herd Improvement DIM—days in milk DIN-dissolved inorganic nitrogen DIP-degradable intake protein DM-dry matter (mass) DMA-dynamic mechanical analyzer DMI-dry matter intake DNA-deoxyribonucleic acid

DO-dissolved oxygen DOM-digestible (dissolved) organic matter DOMI-digestible organic matter intake DON-deoxynivalenol, dissolved organic nitrogen DOT-date of termination DOY-day of year DS-dry soluble DSC-differential scanning calorimetry (calorimeter) DTH-delayed-type hypersensitivity EC-effective concentration, emulsifiable concentrate ECB–European corn borer ECM-energy-corrected milk EDTA-ethylenediaminetetraacetic acid EIPH-exercise-induced pulmonary hemorrhage EL-electrolyte leakage ELISA-enzyme-linked immunosorbent assay EMC-equilibrium moisture content EMG-electromyography ER-endoplasmic reticulum FA—fatty acid FAW-fall armyworm FBS-fetal bovine serum FCE-feed conversion efficiency FCR-feed conversion ratio FE-fallow efficiency FFA-free fatty acid F/G, F:G-feed to gain ratio [feed efficiency] FHB-Fusarium head blight FISH-fluorescent in situ hybridization FL—free lipid FSH-follicle-stimulating hormone FT—Fourier transform (transformation) FW-fresh weight GA-gibberellic acid GB-greenbug GC-gas chromatography (chromatograph) GCA-general combining ability GDD—growing degree day GDP-gross domestic product GDU-growing degree unit GE-gross energy GxE—genotype x environment [interaction] G/F, G:F–gain to feed ratio [feed efficiency] GI-gastrointestinal, gluten index GL-glycolipid GLAI—green leaf area index GLC-gas-liquid chromatography (chromatograph) GLM—general linear model GMD–geometric mean diameter GMO-genetically modified organism

GMP-good management practice GNP-gross national product GnRH–gonadotropin-releasing hormone GPD-growing point differentiation GR—growth rate, glutathione reductase GRAS-generally recognized as safe GSD-geometric standard deviation HACCP-hazard analysis [of] critical control points HAT—hours after treatment HDD-heating degree day HDL-high density lipoprotein HE-hematoxylin [and] eosin HI-harvest index HKW-hundred kernel weight HMW-high molecular weight HP-horsepower (also hp), high performance HPA-hypothalamic-pituitary-adrenal HPCE—high performance capillary electrophoresis HPLC—high performance liquid chromatography (chromatograph) HPTLC—high performance thin-layer chromatography (chromatograph) HRSW-hard red spring wheat HRT-18-human rectal tumor-18 [cells] HRWW-hard red winter wheat HSV-herpes simplex virus HT—high temperature HTST-high-temperature short-time HU-heat unit HUS-hemolytic uremic syndrome HWW-hard white wheat IAA-indoleacetic acid IBRV-infectious bovine rhinotrachitis virus IBV—infectious bronchitic virus ID-inner diameter IGF-I-insulin-like growth factor-I IGR-insect growth regulator IHC-immunohistochemistry IL-2—interleukin-2 IM-intramuscular (intramuscularly) IMS-infrared microspectroscopy IP-insoluble protein IPM-integrated pest management IR-infrared IRT-infrared transducer ITS-internal transcribed spacer IV—intravenous (intravenously) IVDMD—in vitro dry matter digestibility IWM-integrated weed management JH—iuvenile hormone JGMV-johnsongrass mosaic virus

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kDA-kilodalton

LAB—lactic acid bacteria LAI—leaf area index LC—liquid chromatography (chromatograph) LDL—low density lipoprotein LEPA—low energy precision application LER—land equivalent ratio LH—luteinizing hormone LM—longissimus muscle LMW—low molecular weight LPS—lipopolysaccharide LSD—least significant difference LSM-least square mean LT—low temperature LTER-Long-Term Ecological Research LVE-low-volatile ester MAb-monoclonal antibody MANOVA—multivariate analysis of variance MAPE—mean absolute percent area MAS—marker-assisted selection MAT-months after treatment MBW—metabolic body weight MC-moisture content MCL-maximum concentration level MCP-microbial crude protein MCV-mean coefficient [of] variation MDMV-maize dwarf mosaic virus ME—metabolizable energy MEL—maximum exposure limit MEM—minimum essential medium MG-maturity group MIC—minimum inhibitory concentration MLR—multiple linear regression MP-metabolizable protein MPN—most profitable number MS-mass spectroscopy, microsatellite, Murashige [and] Skoog [medium] MSE—mean squared error MTO-modified tall oil MUN-milk urea nitrogen MW-molecular weight NA—not applicable, numerical aperture NDF-neutral detergent fiber NDFD—neutral detergent fiber digestion NEFA—nonesterified fatty acid NEg-net energy [for] gain NFDM—nonfat dried milk NI—near infrared NIL—near isogenic line NIR—near infrared. near-infrared reflectance

NIRS-near-infrared reflectance spectroscopy NIS—nonionic surfactant NL—nonpolar lipid NMR-nuclear magnetic resonance NORG—norgestomet NPE—net production efficiency NPN—nonprotein nitrogen NS-not significant NSC-nonstructural carbohydrate NSL—nonstarch lipid NT—no tillage (no-till) NUE—nitrogen use efficiency OA-osmotic adjustment OD-optical density, outer diameter ODR-oxygen diffusion rate OM—organic matter OMI—organic matter intake OP-organophosphate ORF—open reading frame ORP—oxygen reduction potential PAGE—polyacrylamide gel electrophoresis PAH-polycyclic aromatic hydrocarbon PAI-plant area index PAM—polyacrylamide, pulmonary alveolar macrophage PAR—photosynthetically active radiation PAW-plant available water PBS—phosphate buffered saline PCA-principal components analysis PCR—polymerase chain reaction, principal components regression PCV–packed cell volume PDI—pellet durability index PEG—polyethylene glycol PEL—permissible exposure limit PER-protein efficiency ratio PFU—plaque-forming unit PG-prostaglandin, propyl gallate PHA-phytohaemagglutin PI-plant introduction PIM—pulmonary intravascular macrophage PL-phospholipid PLD—phospholipase D PLS—partial least squares PMB—premature browning POM—particulate organic matter PON-particulate organic nitrogen POST-postemergence PPI-preplant incorporated PRE-preemergence PRID—progesterone-releasing intravaginal device PRRS-porcine reproductive [and] respiratory syndrome

PRV—pseudorabies virus

PS I-photosystem I PS II-photosystem II PSE-pale, soft, [and] exudative PUE—precipitation use efficiency PUN-plasma urea nitrogen PVC—polyvinyl chloride PW-peptone water QTL—quantitative trait locus (loci) RA-relative abundance, retinoic acid RAPD—random amplified polymorphic DNA RBC-red blood cell RBD-randomized block design rbST-recombinant bovine somatotropin RCB-randomized complete block RCBD-randomized complete block design R&D—research and development RDS—ruminally degradable starch RFLP—restriction fragment length polymorphism RH-relative humidity RIA-radioimmunoassay RMSE—root mean squared error RNA—ribonucleic acid ROI-return on investment ROW-right-of-way RP-reversed phase RSE-residual standard error RSM—response surface methodology (model) RT—room temperature, reverse transcriptase RTE-ready to eat RUBISCO—ribulose 1,5-bisphosphate carboxylase RUP-rumen undegradable protein RVA—Rapid Visco-Analyser RVP—remaining value percentage RWA-Russian wheat aphid RWC-relative water content RY-relative yield SAA-sulfur amino acid SAI-stem area index SAS—Statistical Analysis System SBM—soybean meal SCA-specific combining ability SCC-somatic cell count SCFA-short chain fatty acid SCMV-sugarcane mosaic virus SD-standard deviation, spray-dried SDAP-spray-dried animal plasma SDPP-spray-dried porcine plasma SDI-subsurface drip irrigation SDS-sodium dodecyl sulfate SE-standard error

SEC—size exclusion chromatography (chromatograph)

SEM—scanning electron microscopy (microscope), standard error [of the] mean SF-sorghum-fallow SFE-supercritical fluid extraction SI-saturation index SKCS-Single Kernel Characterization System SLB—Septoria leaf blight SLU-standard livestock unit SME-specific mechanical energy S/N-signal to noise [ratio] SNF-solids-not-fat SP—swelling power, soluble powder SPSS-Statistical Package [for the] Social Sciences SRL-specific root length SrMV—sorghum mosaic virus SRWW-soft red winter wheat ST-somatotropin STD-standard deviation STP—sodium tripolyphosphate SWC-soil water content SWCB-southwestern corn borer SWW-soft white wheat TA-titratable activity TAI-timed artificial insemination TBARS-thiobarbituric acid reacting substance TBS-Tris-buffered saline TDF-total dietary fiber TDN-total digestible nutrients TDOMI-total digestible organic matter intake TDS-total dissolved solids TEM-transmission electron microscopy (microscope) THI-temperature humidity index TKW-thousand kernel weight TL-total lipid TLV-threshold limit value

TMDL-total maximum daily load

TMR—total mixed ration

TN—total nitrogen

TNC-total nonstructural carbohydrate

TP-total phosphorus

TPC-total plate count

TSA—tryptic soy agar TSB—tryptic soy broth

TSM—twospotted spider mite

TU-thermal unit

TWA—time-weighted average

UAN—urea ammonium nitrate UF—ultrafiltration UIP—undegradable intake protein UTR—untranslated region UV—ultraviolet VAM—vesicular-arbuscular mycorrhiza (mycorrhizal) VSV—vesicular stomatitis virus

WAT—weeks after treatment WBS—Warner-Bratzler shear [force] WCF—wheat-corn-fallow WCM—wheat curl mite WEPS—Wind Erosion Prediction System WF—wheat-fallow WSBMV—wheat soilborne mosaic virus WSF—wheat-sorghum-fallow WSI—water stability index WSMV—wheat streak mosaic virus WUE—water use efficiency

ZO-zinc oxide

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Contribution no. 01-490-S from the Kansas Agricultural Experiment Station.

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Kansas State University Agricultural Experiment Station and Cooperative Extension Service Manhattan, Kansas 66506

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August 2001

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Issued in furtherance of Cooperative Extension Work, Acts of May 8 and June 30, 1914, as amended. Kansas State University, County Extension Councils, Extension Districts, and United States Department of Agriculture Cooperating, Marc A. Johnson, Director.