

**V. ABBREVIATIONS USED IN THIS VOLUME.****PLANT DISEASES, PESTS, AND PATHOGENS:**

**BYDV** = barley yellow dwarf virus  
**BMV** = barley mosaic virus  
**CCN** = cereal cyst nematode, *Heterodera avenae*  
**FHB** = Fusarium head blight  
**RWA** = Russian wheat aphid  
**SBMV** = soilborne mosaic virus  
**SLB** = Septoria leaf blotch  
**TMV** = *Triticum* mosaic virus  
**WDF** = wheat dwarf mosaic  
**WSBMV** = wheat soilborne mosaic virus  
**WSMV** = wheat streak mosaic virus  
**WSSMV** = wheat spindle streak mosaic virus  
**WYMV** = wheat yellow mosaic virus  
*E. graminis* f.sp. *tritici* = *Erysiphe graminis* f.sp. *tritici* = the powdery mildew fungus  
*F. graminearum* = *Fusarium graminearum* = head scab fungus  
*F. nivale* = *Fusarium nivale* = snow mold fungus  
*H. avenae* = *Heterodera avenae* = cereal cyst nematode  
*P. graminis* = *Polymyxa graminis* = wheat soilborne mosaic virus vector  
*P. striiformis* f.sp. *tritici* = *Puccinia striiformis* f.sp. *tritici* = strip rust fungus  
*P. triticina* = *Puccinia triticina* = *P. recondita* f.sp. *tritici* = leaf rust fungus  
*R. cerealis* = *Rhizoctonia cerealis* = sharp eyespot  
*R. solani* = *Rhizoctonia solani* = Rhizoctonia root rot  
*R. padi* = *Rhonpalosiphum padi* = bird cherry-oat aphid  
*S. tritici* = *Septoria tritici* = Septoria leaf spot fungus  
*S. graminearum* = *Schizaphus graminearum* = greenbug  
*St. nodorum* = *Stagonospora nodorum* = Stagonospora glume blotch  
*T. indica* = *Tilletia indica* = Karnal bunt fungus

**SCIENTIFIC NAMES AND SYNONYMS OF GRASS SPECIES (NOTE: CLASSIFICATION ACCORDING TO VAN SLAGEREN, 1994):**

*A. strigosa* = *Avena strigosa*  
*Ae. cylindrica* = *Aegilops cylindrica* = *Triticum cylindricum*  
*Ae. geniculata* = *Aegilops geniculata* = *Aegilops ovata* = *Triticum ovatum*  
*Ae. longissima* = *Aegilops longissima* = *Triticum longissimum*  
*Ae. markgrafii* = *Aegilops markgrafii* = *Aegilops caudata* = *Triticum caudatum*  
*Ae. speltoides* = *Aegilops speltoides* = *Triticum speltoides*  
*Ae. tauschii* = *Aegilops tauschii* = *Aegilops squarrosa* = *Triticum tauschii*  
*Ae. triuncialis* = *Aegilops triuncialis* = *Triticum triunciale*  
*Ae. umbellulata* = *Aegilops umbellulata* = *Triticum umbellulatum*  
*Ae. peregrina* = *Aegilops peregrina* = *Aegilops variabilis* = *Triticum peregrinum*  
*Ae. searsii* = *Aegilops searsii* = *Triticum searsii*  
*Ae. ventricosa* = *Aegilops ventricosa* = *Triticum ventricosum*  
*D. villosum* = *Dasypyrum villosum* = *Haynaldia villosa*  
*S. cereale* = *Secale cereale* = rye  
*T. aestivum* subsp. *aestivum* = *Triticum aestivum* = hexaploid, bread, or common wheat  
*T. aestivum* subsp. *macha* = *Triticum macha*  
*T. aestivum* subsp. *spelta* = *Triticum spelta*  
*T. militinae* = *Triticum militinae*  
*T. monococcum* subsp. *aegilopoides* = *Triticum boeoticum*  
*T. timopheevii* subsp. *timopheevii* = *Triticum timopheevii*  
*T. timopheevii* subsp. *armeniicum* = *Triticum araraticum* = *T. araraticum*  
*T. turgidum* subsp. *dicoccoides* = *Triticum dicoccoides* = wild emmer wheat

*T. turgidum* subsp. *dicoccum* = *Triticum dicoccum*

*T. turgidum* subsp. *durum* = *Triticum durum* = durum, pasta, or macaroni wheat

*T. urartu* = *Triticum urartu*

*Th. bessarabicum* = *Thinopyrum bessarabicum*

*Th. elongatum* = *Thinopyrum elongatum* = *Agropyron elongatum*

*Th. intermedium* = *Thinopyrum intermedium* = *Agropyron intermedium*

#### SCIENTIFIC JOURNALS AND PUBLICATIONS:

**Agron Abstr** = Agronomy Abstracts

**Ann Wheat Newslet** = *Annual Wheat Newsletter*

**Aus J Agric Res** = *Australian Journal of Agricultural Research*

**Can J Plant Sci** = *Canadian Journal of Plant Science*

**Cereal Chem** = *Cereal Chemistry*

**Cereal Res Commun** = *Cereal Research Communications*

**Curr Biol** = *Current Biology*

**Eur J Plant Path** = *European Journal of Plant Pathology*

**Funct Integ Genomics** = *Functional Integrative Genomics*

**Ind J Agric Sci** = *Indian Journal of Agricultural Science*

**Int J Plant Sci** = *International Journal of Plant Science*

**J Agric Sci Technol** = *Journal of Agricultural Science and Technology*

**J Cereal Sci** = *Journal of Cereal Science*

**J Hered** = *Journal of Heredity*

**J Phytopath** = *Journal of Phytopathology*

**J Plant Phys** = *Journal of Plant Physiology*

**Mol Gen Genet** = *Molecular and General Genetics*

**Nat Genet** = *Nature Genetics*

**PAG** = Plant and Animal Genome (abstracts from meetings)

**Phytopath** = *Phytopathology*

**Plant Breed** = *Plant Breeding*

**Plant, Cell and Envir** = *Plant, Cell and Environment*

**Plant Cell Rep** = *Plant Cell Reporter*

**Plant Dis** = *Plant Disease*

**Plant Physiol** = *Plant Physiology*

**Proc Ind Acad Sci** = *Proceedings of the Indian Academy of Sciences*

**Proc Natl Acad Sci USA** = *Proceedings of the National Academy of Sciences USA*

**Sci Agric Sinica** = *Scientia Agricultura Sinica*

**Theor Appl Genet** = *Theoretical and Applied Genetics*

**Wheat Inf Serv** = *Wheat Information Service*

#### UNITS OF MEASUREMENT:

**bp** = base pairs

**bu** = bushels

**cM** = centimorgan

**ha** = hectares

**kDa** = kiloDaltons

**m<sup>2</sup>** = square meters

**m<sup>3</sup>** = cubic meters

**μ** = micron

**masl** = meters above sea level

**me** = milli-equivalents

**mL** = milliliters

**mmt** = million metric tons

**mt** = metric tons

**Q** = quintals

**T** = tons

**MISCELLANEOUS TERMS:**

- Al** = aluminum  
**AFLP** = amplified fragment length polymorphism  
**ANOVA** = analysis of variance  
**A-PAGE** = acid polyacrylamide gel electrophoresis  
**APR** = adult-plant resistance  
**AUDPC** = area under the disease progress curve  
**BC** = back cross  
**BW** = bread wheat  
**CHA** = chemical hybridizing agent  
**CMS** = cytoplasmic male sterile  
**CPS** = Canadian Prairie spring wheat  
**DH** = doubled haploid  
**DON** = deoxynivalenol  
**ELISA** = enzyme-linked immunosorbent assay  
**EMS** = ethyl methanesulfonate  
**EST** = expressed sequence tag  
**FAWWON** = Facultative and Winter Wheat Observation Nursery  
**GA** = gibberellic acid  
**GIS** = geographic-information system  
**GM** = genetically modified  
**GRIN** = Germplasm Resources Information Network  
**HPLC** = high pressure liquid chromatography  
**HMW** = high-molecular weight (glutenins)  
**HRSW** = hard red spring wheat  
**HRRW** = hard red winter wheat  
**HWSW** = hard white spring wheat  
**HWWW** = hard white winter wheat  
**ISSR** = inter-simple sequence repeat  
**IT** = infection type  
**kD** = kilodalton  
**LMW** = low molecular weight (glutenins)  
**MAS** = marker-assisted selection  
**NSF** = National Science Foundation  
**NILs** = near-isogenic lines  
**NIR** = near infrared  
**NSW** = New South Wales, region of Australia  
**PAGE** = polyacrylamide gel electrophoresis  
**PCR** = polymerase chain reaction  
**PFGE** = pulsed-field gel electrophoresis  
**PMCs** = pollen mother cells  
**PNW** = Pacific Northwest (a region of North America including the states of Oregon and Washington in the U.S. and the province of Vancouver in Canada)  
**PPO** = polyphenol oxidase  
**QTL** = quantitative trait loci  
**RAPD** = random amplified polymorphic DNA  
**RCB** = randomized-complete block  
**RFLP** = restriction fragment length polymorphism  
**RILs** = recombinant inbred lines  
**RT-PCR** = real-time polymerase-chain reaction  
**SAMPL** = selective amplification of microsatellite polymorphic loci  
**SAUDPC** = standardized area under the disease progress curve  
**SCAR** = sequence-characterized amplified region  
**SDS-PAGE** = sodium dodecyl sulphate polyacrylamide gel electrophoresis  
**SE-HPLE** = size-exclusion high-performance liquid chromatography  
**SH** = synthetic hexaploid

**SNP** = single nucleotide polymorphism

**SRPN** = Southern Regional Performance Nursery

**SRWW** = soft red winter wheat

**SRSW** = soft red spring wheat

**STMA** = sequence tagged microsatellite site

**SWWW** = soft white winter wheat

**SSD** = single-seed descent

**SSR** = simple-sequence repeat

**STS** = sequence-tagged site

**TKW** = 1,000-kernel weight

**UESRWWN** = Uniform Experimental Soft Red Winter Wheat Nursery

**VIGS** = virus-induced gene silencing