



**Figure 1.**—Chronostratigraphic correlation chart of Pennsylvanian rocks in the Appalachian coal regions showing approximate positions of coal beds, coal zones, and key stratigraphic units. Ages from Gradstein and others (2004). Series, North American Stage, and Western European Stage names are from Subcommittee on Carboniferous Stratigraphy (SCCS). General chart layout based on information from S.F. Greb (Kentucky Geological Survey, unpub. data, 2005). Detailed stratigraphic correlations are based on communications with State geological surveys and from source publications listed at the base of each stratigraphic column. Abbreviations are as follows: Fm., Formation; ft., feet; Ls. or ls., Limestone or limestone; Md., millions of years; Mbr. or mbr., Member or member; Md., Maryland; sh., shale; Ss. or ss., Sandstone or sandstone.