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TABLE 3. Stability of minerals in metamorphic zones in the Mount Carmel and Southington quadrangles, Connecticut

	Minerals	Metamorphic zones				
		Chlorite	Garnet	Biotite	Staurolite	Kyanite
Minerals found in pelitic rocks (phyllite and schist)	Quartz					
	Muscovite					
	Chlorite					
	Albite	-----				
	Rutile					
	Zircon					
	Tourmaline					
	Apatite					
	Pyrite	-----				
	Sphene	-----				
	Graphite (& carbon)					
	Magnetite	-----				
	Ilmenite	-----				
	Garnet					
	Biotite					
	Oligoclase				-----	
Staurolite					-----	
Kyanite						
Minerals found in non-pelitic rocks	Calcite					
	Clinozoisite				-----	
	Hornblende				-----	
	Pistacite				-----	
	Zoisite				-----	
	Andesine				-----	
	Microcline				-----	
	Tremolite				-----	
	Diopside					-----
	Vesuvianite					-----
	Wollastonite					-----

Dashed lines opposite albite, sphene, magnetite, and ilmenite indicate that the minerals may be present but are not coarse enough to be identified easily under the petrographic microscope. Dashed line opposite pyrite indicates that the mineral is not conspicuous, although it may be present. Pyrite porphyroblasts are characteristic of pelitic rocks and impure crystalline limestones that lack biotite. Except for staurolite and kyanite, the minerals found in pelitic rocks also may be found in non-pelitic rocks. Some pelitic rocks contain minor calcite, especially in the chlorite zone.

This report is preliminary and has not been edited for conformity with Geological Survey format