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## Comparative Progressive Metamorphism of Igneous and Sedimentary Rocks

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The river valley is pre-Kansan. In estimating the time it took to cut the valley and its ravines, one must recognize that the factors of climate, heat, cold, rain, snowfall, and sunshine must be considered. Weather conditions such as we have had in the past three years undoubtedly erode rock and soil much faster than the weather we had for a long period before it.

WINTERSET, IOWA.

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## COMPARATIVE PROGRESSIVE METAMORPHISM OF IGNEOUS AND SEDIMENTARY ROCKS

R. C. SPIVEY

Metamorphic rocks are frequently arranged in zones around igneous intrusions, and each of these zones has certain characteristic minerals by which it can be recognized. Zones of low-grade metamorphism, garnet, kyanite and sillimanite are frequently discernible, and these zones are remarkably similar in different regions, even though the original rocks may have been quite diverse. This similarity in the rocks formed by the metamorphism of igneous and sedimentary rocks suggests that many rocks assumed to be meta-igneous may really be meta-sedimentary in origin.

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