

For release By Major A.H. Thiessen
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Autumn leaves! Many trees and shrubs show gorgeous leaf coloring in the fall, the green of summer turning to red, yellow, purple, and their variations. The weather is only secondary to these changes. As long as chlorophyll pigment is being actually made, the leaves stay green; but as fall approaches and the leaves have done their work, less and less chlorophyll is made. Other compounds are also present, and these form the bases of the autumn colors. The particular color is hereditary, like the blue and brown eyes of people. Thus maple leaves turn red and ash leaves purple. The leaves of the same species will vary in different places and even on the same branch, due to different conditions of temperature, light and moisture. -----