Normal Vision
92% Adult Males
99.5% Adult Females

Causes of color blindness include
- Hereditary
- Diabetes
- Multiple sclerosis
- Liver & eye disease
- Drugs for hypertension, antibiotics, barbiturates, nervous disorders
- Age, physical changes > 60

Deuteranomaly & Deuteranopia
- 6% males, 0.45% females, congenital
- Red-green cone as black
- Encoded on X-chromosome

Protanomaly & Protanopia
- 1% males
- Reduced sensitivity to red
- X-linked gene

Achromatopsia
- Monochromatic vision
- Very rare with 1 in 33,000 persons
- Usually wear dark glasses inside

Tritanomaly
- Blue-yellow color blindness
- Rare, affecting 1 in 30,000 persons
- Affects men and women equally

Color Blindness Review of the WVDOH 2017 Tourism Map